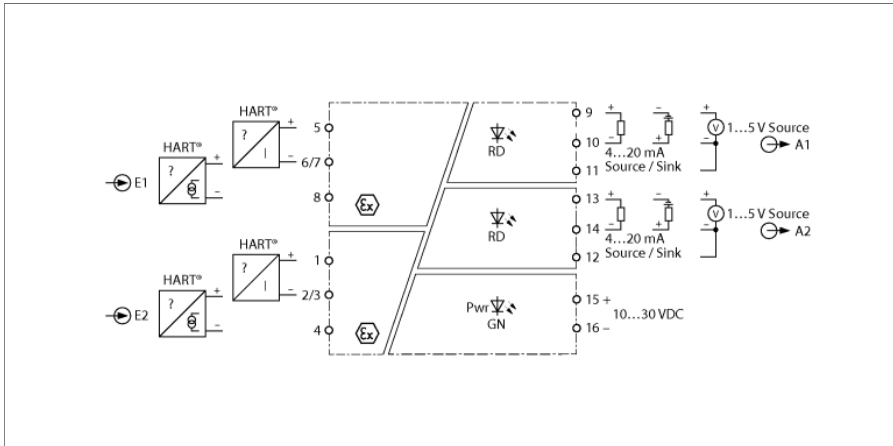


## Isolating transducer

### 2-channel

### IMX12-AI01-2I-2IU-H0 /24VDC/CC



The 2-channel IMX12-AI01-2I-2IU-H0/24VDC/CC HART® isolating transducer is designed to operate intrinsically safe HART® 2-wire transducers in the Ex area and to transmit the measured signals to the non-Ex area. In addition to the analog signals, digital HART® communication signals can also be transmitted bidirectionally. Furthermore, active and passive 2-wire HART® transmitters can be operated.

The device is equipped with an input circuit of 4...20 mA and an output circuit of 4...20 mA (either as source or sink) or 1...5 V (source). The input signals are transmitted 1:1 without interference in the range of 3.8...20.5 mA and made available at the outputs in the non-Ex area. Wire break (< 3.5 mA) and short circuit (> 22 mA) in the transducer circuit are output as current < 3.5 mA/voltage < 0.875 V.

A green LED indicates operational readiness. An error in the input circuit causes the red LED to flash according to NE44.

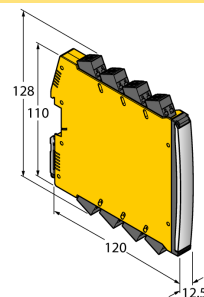
The device can be used in safety circuits up to SIL2 (high and low demand according to IEC 61508) and meets the requirements of NE21. It is equipped with removable spring type terminals.

- Input circuits monitored for wire-break and short-circuit
- Complete galvanic isolation
- HART transparent
- Removable spring type terminals
- ATEX, IECEx, cFM, cUL, NEPSI, INMETRO, Kosha, TR CU EAC CMI, TIIS, Russia Pattern Approval
- Installation in zone 2
- SIL 2



# Isolating transducer 2-channel IMX12-AI01-2I-2IU-H0 /24VDC/CC

## Dimensions



|                                                                        |                                                                                                                                                                                               |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type designation</b>                                                | IMX12-AI01-2I-2IU-H0 /24VDC/CC                                                                                                                                                                |
| Ident-No.                                                              | 7580307                                                                                                                                                                                       |
| <b>Nominal voltage</b>                                                 | 24 VDC                                                                                                                                                                                        |
| Operating voltage range                                                | 10...30 VDC                                                                                                                                                                                   |
| Power consumption                                                      | ≤ 3.8 W                                                                                                                                                                                       |
| Power dissipation, typ.                                                | ≤ 1.9 W                                                                                                                                                                                       |
| <b>Transmitter connection</b>                                          |                                                                                                                                                                                               |
| Supply voltage                                                         | ≥ 17 V / 20 mA                                                                                                                                                                                |
| Input current                                                          | 2 x 4...20 mA                                                                                                                                                                                 |
| Temperature drift supply voltage                                       | ≤ 0.03 %/K                                                                                                                                                                                    |
| Reference temperature                                                  | 23 °C                                                                                                                                                                                         |
| <b>Output circuits</b>                                                 |                                                                                                                                                                                               |
| Output current                                                         | 2 x Source/Sink (15...28V) 4...20 mA                                                                                                                                                          |
| Output voltage                                                         | 2 x 1...5 V                                                                                                                                                                                   |
| Load resistance, current output                                        | ≤ 0.8 kΩ                                                                                                                                                                                      |
| Short-circuit                                                          | Output < 3.5 mA, if in the input circuit a current > 22 mA flows                                                                                                                              |
| Wire break                                                             | Output < 3.5 mA, if in the input circuit a current < 3.5 mA flows                                                                                                                             |
| <b>Rise time (10...90 %)</b>                                           | ≤ 5 ms                                                                                                                                                                                        |
| Fall time (90...10 %)                                                  | ≤ 5 ms                                                                                                                                                                                        |
| Measuring accuracy (including linearity, hysteresis and repeatability) | ≤ 0.05 % of full scale                                                                                                                                                                        |
| Reference temperature                                                  | 23 °C                                                                                                                                                                                         |
| Temperature drift                                                      | ≤ 0.002 % of full scale/K                                                                                                                                                                     |
| <b>Galvanic isolation</b>                                              |                                                                                                                                                                                               |
| Test voltage                                                           | 2.5 kV                                                                                                                                                                                        |
| Input 1 to output 1                                                    | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Input 2 to output 2                                                    | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Input 1 to supply                                                      | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Input 2 to supply                                                      | 375 V peak value acc. to EN 60079-11                                                                                                                                                          |
| Output 1 to supply                                                     | 50 V RMS acc. to EN 50178 and EN 61010-1                                                                                                                                                      |
| Output 2 to supply                                                     | 50 V RMS acc. to EN 50178 and EN 61010-1                                                                                                                                                      |
| Output 1 to output 2                                                   | 50 V RMS acc. to EN 50178 and EN 61010-1                                                                                                                                                      |
| Input 1 to input 2                                                     | 60 V peak value acc. to EN 60079-11                                                                                                                                                           |
| <b>Important note</b>                                                  | For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.                                                                                  |
| Ex approval acc. to conformity certificate                             | TÜV 15 ATEX 158337 X                                                                                                                                                                          |
| Application area                                                       | II (1) G, II (1) D                                                                                                                                                                            |
| Ignition protection category                                           | [Ex ia Ga] IIC; [Ex ia Da] IIIC                                                                                                                                                               |
| Application area                                                       | II 3 (1) G                                                                                                                                                                                    |
| Ignition protection type                                               | Ex ec [ia Ga] IIC T4 Gc                                                                                                                                                                       |
| <b>Important note</b>                                                  | If the device is used in applications to achieve functional safety according to IEC 61508, the safety manual must be used. Information in the data sheet are not valid for functional safety. |
| Use in SIL safety circuits                                             | SIL 2 acc. to IEC 61508                                                                                                                                                                       |
| <b>Indication</b>                                                      |                                                                                                                                                                                               |
| Operational readiness                                                  | green                                                                                                                                                                                         |
| Error indication                                                       | red                                                                                                                                                                                           |

# Isolating transducer

## 2-channel

### IMX12-AI01-2I-2IU-H0 /24VDC/CC

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------|------------------|----|----------------|--|-----------------------------------|--|--|----------|--|------------|--|----------|--|-----------|-------|--|--|------------------|--|----------|--|-----------|--|--------------|--|---------------|-------------|--|--|-----------------|--|----------|--|-----------|--|-----------------|--|--------------|----------|--|--|---------------|-----|--|--|----------|--|-----------|--|------|--|----------------------------------------------------------------------------------------------------------|--|------------|--|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--|---------------|--|---------------|--|----------|--|----------|--|--------------|--|--------------|
| <b>Protection class</b>           | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Flammability class acc. to UL 94  | V-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Ambient temperature               | -25...+70 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Storage temperature               | -40...+80 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Relative humidity                 | ≤ 95 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Dimensions                        | 120 x 12.5 x 128 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Weight                            | 185 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Mounting instructions             | DIN rail (NS35)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Housing material                  | Polycarbonate/ABS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Electrical connection             | Removable spring type terminals, 2-pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Terminal cross-section            | 0.2...2.5 mm <sup>2</sup> (24 ... 13 AWG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Environmental conditions          | <table> <tr> <td>Operating altitude</td><td>Up to 2000 m above sea level</td></tr> <tr> <td>Pollution degree</td><td>II</td></tr> <tr> <td>Standards used</td><td></td></tr> <tr> <td>Voltage resistance and insulation</td><td></td></tr> <tr> <td></td><td>EN 50178</td></tr> <tr> <td></td><td>EN 61010-1</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td>Shock</td><td></td></tr> <tr> <td></td><td>EN 61373 class B</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>EN 60068-2-6</td></tr> <tr> <td></td><td>EN 60068-2-27</td></tr> <tr> <td>Temperature</td><td></td></tr> <tr> <td></td><td>EN 60068-2-1 Ad</td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>EN 60068-2-2 Bd</td></tr> <tr> <td></td><td>EN 60068-2-1</td></tr> <tr> <td>Humidity</td><td></td></tr> <tr> <td></td><td>EN 60068-2-38</td></tr> <tr> <td>EMC</td><td></td></tr> <tr> <td></td><td>EN 50155</td></tr> <tr> <td></td><td>GL VI-7-2</td></tr> <tr> <td></td><td>NE21</td></tr> <tr> <td></td><td>In the event of a conducted interference in the range of 150 kHz, the measuring error changes to ±700 µA</td></tr> <tr> <td></td><td>EN 61326-1</td></tr> <tr> <td></td><td>EN 61326-3-1</td></tr> <tr> <td></td><td>EN 61000-4-2</td></tr> <tr> <td></td><td>EN 61000-4-3</td></tr> <tr> <td></td><td>EN 61000-4-4</td></tr> <tr> <td></td><td>EN 61000-4-5</td></tr> <tr> <td></td><td>EN 61000-4-6</td></tr> <tr> <td></td><td>EN 61000-4-11</td></tr> <tr> <td></td><td>EN 61000-4-29</td></tr> <tr> <td></td><td>EN 55011</td></tr> <tr> <td></td><td>EN 55016</td></tr> <tr> <td></td><td>EN 50121-3-2</td></tr> <tr> <td></td><td>EN 61000-6-2</td></tr> </table> | Operating altitude | Up to 2000 m above sea level | Pollution degree | II | Standards used |  | Voltage resistance and insulation |  |  | EN 50178 |  | EN 61010-1 |  | EN 50155 |  | GL VI-7-2 | Shock |  |  | EN 61373 class B |  | EN 50155 |  | GL VI-7-2 |  | EN 60068-2-6 |  | EN 60068-2-27 | Temperature |  |  | EN 60068-2-1 Ad |  | EN 50155 |  | GL VI-7-2 |  | EN 60068-2-2 Bd |  | EN 60068-2-1 | Humidity |  |  | EN 60068-2-38 | EMC |  |  | EN 50155 |  | GL VI-7-2 |  | NE21 |  | In the event of a conducted interference in the range of 150 kHz, the measuring error changes to ±700 µA |  | EN 61326-1 |  | EN 61326-3-1 |  | EN 61000-4-2 |  | EN 61000-4-3 |  | EN 61000-4-4 |  | EN 61000-4-5 |  | EN 61000-4-6 |  | EN 61000-4-11 |  | EN 61000-4-29 |  | EN 55011 |  | EN 55016 |  | EN 50121-3-2 |  | EN 61000-6-2 |
| Operating altitude                | Up to 2000 m above sea level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Pollution degree                  | II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Standards used                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Voltage resistance and insulation |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50178                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61010-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Shock                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61373 class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Temperature                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-1 Ad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-2 Bd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| Humidity                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 60068-2-38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
| EMC                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | GL VI-7-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | NE21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | In the event of a conducted interference in the range of 150 kHz, the measuring error changes to ±700 µA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61326-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61326-3-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-4-29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 55011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 55016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 50121-3-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |
|                                   | EN 61000-6-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                              |                  |    |                |  |                                   |  |  |          |  |            |  |          |  |           |       |  |  |                  |  |          |  |           |  |              |  |               |             |  |  |                 |  |          |  |           |  |                 |  |              |          |  |  |               |     |  |  |          |  |           |  |      |  |                                                                                                          |  |            |  |              |  |              |  |              |  |              |  |              |  |              |  |               |  |               |  |          |  |          |  |              |  |              |

**Isolating transducer**  
**2-channel**  
**IMX12-AI01-2I-2IU-H0 /24VDC/CC**

**Accessories**

| Type code       | Ident-No. | Description                                                                                | Dimension drawing |
|-----------------|-----------|--------------------------------------------------------------------------------------------|-------------------|
| IMX12-SC-2X-4BK | 7580940   | Screw terminals for IM(X)12 modules; included in delivery: 4 pcs. of 2-pin black terminals |                   |
| IMX12-SC-2X-4BU | 7580941   | Screw terminals for IM(X) 12 modules; included in delivery: 4 pcs. of 2-pin blue terminals |                   |
| IMX12-CC-2X-4BK | 7580942   | Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. black terminals, 2-pin  |                   |
| IMX12-CC-2X-4BU | 7580943   | Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. blue terminals, 2-pin   |                   |