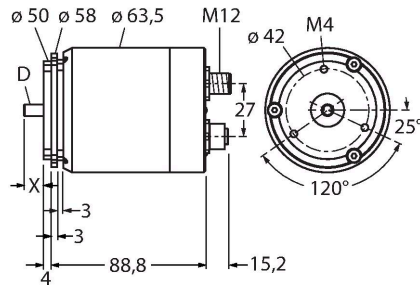


# RM-89S10S-9B28B-B2M12

## Absolute Rotary Encoder - Multiturn Industrial Line



### Features

- Protection class IP67
- -40...+85 °C
- Max. 6000 rpm
- DeviceNet™
- Male 2 x M12
- Bus M12 Pin / BUS OUT M12 connector
- Singleturn, 16 bit resolution
- Multiturn, 12 bit resolution

### Technical data

|                                     |                                                 |
|-------------------------------------|-------------------------------------------------|
| Type                                | RM-89S10S-9B28B-B2M12                           |
| Ident. no.                          | 1562098                                         |
| Measuring principle                 | singleturn: resolver / multiturn: photoelectric |
| Max. Rotational Speed               | 6000 rpm                                        |
| Ambient temperature                 | -40...+85 °C                                    |
| Operating voltage                   | 11...25 VDC                                     |
| Output type                         | Absolute multiturn                              |
| Resolution singleturn               | 16 Bit                                          |
| Resolution multiturn                | 12 Bit                                          |
| Communication protocol              | DeviceNet                                       |
| Design                              | Solid shaft                                     |
| Shaft Type                          | Solid shaft                                     |
| Shaft diameter D [mm]               | 10                                              |
| Wavelength L [mm]                   | 20                                              |
| Shaft material                      | Stainless steel                                 |
| Housing material                    | Powder-coated die-cast aluminium                |
| Axial shaft load                    | 88.96 N                                         |
| Radial shaft load                   | 177.93 N                                        |
| Vibration resistance (EN 60068-2-6) | 5 ... 2000 Hz, 20g                              |
| Shock resistance (EN 60068-2-27)    | 50 Gs for 11 ms                                 |
| Protection class housing            | IP67                                            |

## Technical data

Protection class shaft

IP67

|                |          |                  |                  |              |             |   |   |   |   |
|----------------|----------|------------------|------------------|--------------|-------------|---|---|---|---|
| Pin Assignment | 1        | 2                | 3                | 4            | 5           | - | - | - | - |
| Pin assignment | 3        | 2                | 5                | 4            | 1           | - | - | - | - |
| Signal Bus Out | Shield   | U <sub>B</sub> + | U <sub>B</sub> - | CAN_High (+) | CAN_Low (-) | - | - | - | - |
| Signal -Pin    | BUS in 1 | -                | -                | -            | -           | - | - | - | - |