

## **Data sheet**

Type of mounting On electrical interface On electrical sub-base KC Characters KC EMC Note on fieldbus interface Optional connection technology with accessories: Open style (screw terminal, 5-pin, degree of protection: IP20) Fieldbus interface, protocol CC-LINK® Power supply, function Electronics and load Power supply, connection technology M12x1, A-coded as per EN 61076-2-101 Power supply, type of connection Pilug Fieldbus interface, type Serial interface Fieldbus interface, function Bus connection, incoming/forwarding Fieldbus interface, function Fieldbus interface, transmission rate Fieldbus interface, connection pattern 00995638 Power supply, connection pattern 00995638 Power supply, connection pattern 00995983 Fieldbus interface, connection technology Sub-D Fieldbus interface, connection technology Sub-D Fieldbus interface, connection technology Sub-D Fieldbus interface, connection technology Fieldbus interface, connection technology Sub-D Fieldbus interface, connection t	Feature	Value
On electrical sub-base KC Characters KC EMC Note on fieldbus interface Optional connection technology with accessories: Open style (screw terminal, 5-pin, degree of protection: IP20) Fieldbus interface, protocol CC-UNK® Power supply, connection technology M12x1, A-coded as per EN 61076-2-101 Plug Power supply, type of connection Plug Fieldbus interface, type Serial interface Fieldbus interface, trunction Bus connection, incoming/forwarding Fieldbus interface, transmission rate 156 - 10000 kbit/s Fieldbus interface, transmission rate 156 - 10000 kbit/s Fieldbus interface, connection pattern 00995638 Power supply, connection pattern 00995638 Power supply, connection pattern 0099583 Fieldbus interface, connection pattern 0099583 Fieldbus interface, connection type Socket Note on degree of protection Unused connections sealed Unused connections sealed Fieldbus interface, number of poles/wires 9 Power supply, number of pins/wires 5 Width dimension Vipe code CTEU Communication error System diagnostics Undervoltage Additional functions System diagnostics Undervoltage Additional functions System diagnostics Undervoltage Additional functions DIL switch Internal cycle time 1 ms per 1 byte of user data DC operating voltage range INP, 70 mA Max. power supply Nominal operating voltage DC  24 V	Dimensions W x L x H	40 mm x 91 mm x 50 mm
Note on fieldbus interface Optional connection technology with accessories: Open style (Screw terminal, 5-pin, degree of protection: IP20) Fieldbus interface, protocol  CC-LINK® Electronics and load Power supply, function Electronics and load Power supply, tonnection technology M12x1, A-coded as per EN 61076-2-101 Plug Fieldbus interface, type Fieldbus interface, type Fieldbus interface, function Bus connection, incoming/forwarding Fieldbus interface, galvanic isolation yes Fieldbus interface, connection pattern O0995638 Power supply, connection pattern O0995383 Fieldbus interface, connection pattern O0995383 Fieldbus interface, connection technology Sub-D Fieldbus interface, connection type Socket In mounted state Unused connections sealed Fieldbus interface, number of poles/wires 9 Power supply, number of pins/wires 5 Width dimension 40 mm Type code CTEU Oiagnostics Communication error System diagnostics Undervoltage Additional functions System diagnostics Undervoltage Additional functions System status can be indicated via process data Activate diagnostics Fail-safe and idle response Control elements DIL switch Internal cycle time 1 ms per 1 byte of user data DC operating voltage range Internal cycle time 1 ms per 1 byte of user data DC operating voltage range Internal cycle time Typ. 70 mA Max. power supply Nominal operating voltage DC 24 V	Type of mounting	
Open style (screw terminal, 5-pin, degree of protection: IP20) Fieldbus interface, protocol  Power supply, function  Electronics and load  Power supply, connection technology  M12x1, A-coded as per EN 61076-2-101  Plug Fieldbus interface, type  Fieldbus interface, function  Fieldbus interface, function  Fieldbus interface, transmission rate  Fieldbus interface, galvanic isolation  Fieldbus interface, connection pattern  O0995638  Power supply, connection pattern  O0995383  Fieldbus interface, connection technology  Fieldbus interface, connection technology  Fieldbus interface, connection type  Note on degree of protection  In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  Fieldbus interface, number of pins/wires  Fieldbus interface, onnection type  Cottel  Outperdiction  Type code  CTEU  Communication error  System diagnostics  Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics  Undervoltage  Control elements  DIL switch  Internal cycle time  Cot operating voltage range  Intrinsic current consumption at nominal operating voltage  Max. power supply  Nominal operating voltage DC  24 V	KC characters	KC EMC
Power supply, function Power supply, connection technology M12x1, A-coded as per EN 61076-2-101 Power supply, type of connection Plug Fieldbus interface, type Fieldbus interface, function Fieldbus interface, function Bus connection, incoming/forwarding Fieldbus interface, transmission rate Fieldbus interface, connection pattern Fieldbus interface, connection pattern O0995383 Fieldbus interface, connection technology Sub-D Fieldbus interface, connection technology Sub-D Fieldbus interface, connection technology Fieldbus interface	Note on fieldbus interface	
Power supply, connection technology  M12x1, A-coded as per EN 61076-2-101  Power supply, type of connection  Plug  Fieldbus interface, type  Serial interface Bus connection, incoming/forwarding  Fieldbus interface, transmission rate Fieldbus interface, transmission rate Fieldbus interface, alvanic isolation  yes Fieldbus interface, connection pattern  00995638  Power supply, connection pattern  00995383  Fieldbus interface, connection technology  Sub-D  Socket  Note on degree of protection  Unused connections sealed  Fieldbus interface, number of poles/wires  9  Power supply, number of pins/wires  5  Width dimension  Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics  Fail-safe and idle response  Control elements  DIL switch  In sper 1 byte of user data  BY 30 V  Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  Vent and a sper EN 61076-2-101  M12x1, A-coded as per EN 61076-2-101  Plug  Serial interface Bus connection, incoming/forwarding  Fail oncoming/forwarding  Plug  Serial interface Bus connection, incoming/forwarding  For 00095638  Bus connection, incoming/forwarding  For 00095638  Bus connection, incoming/forwarding  Fieldbus interface, type  Socket  None of 999538  Fieldbus interface, transmission rate  156 - 10000 kbit/s  Fieldbus interface, tonnetion special	Fieldbus interface, protocol	CC-LINK®
Power supply, type of connection Plug Fieldbus interface, type Serial interface Fieldbus interface, function Bus connection, incoming/forwarding Fieldbus interface, transmission rate 156 - 10000 kbit/s Fieldbus interface, galvanic isolation yes Fieldbus interface, connection pattern 00995638 Power supply, connection pattern 00995383 Fieldbus interface, connection technology Sub-D Fieldbus interface, connection technology Fieldbus interface, connection type Socket Note on degree of protection In mounted state Unused connections sealed Fieldbus interface, number of poles/wires 9 Power supply, number of pins/wires 5 Width dimension Ingue code CIEU Diagnostics Communication error System diagnostics Undervoltage Additional functions System status can be indicated via process data Activate diagnostics Fall-safe and idle response DiL switch Internal cycle time 1 ms per 1 byte of user data DC operating voltage range Intrinsic current consumption at nominal operating voltage Max. power supply Typ. 70 mA Typ.	Power supply, function	Electronics and load
Fieldbus interface, type Fieldbus interface, function Bus connection, incoming/forwarding Fieldbus interface, galvanic isolation Fieldbus interface, galvanic isolation Fieldbus interface, galvanic isolation Fieldbus interface, connection pattern O0995638 Fower supply, connection pattern O0995383 Fieldbus interface, connection technology Fieldbus interface, connection technology Fieldbus interface, connection type Socket Note on degree of protection In mounted state Unused connections sealed Fieldbus interface, number of poles/wires 9 Fower supply, number of pins/wires 5 Width dimension Fieldbus interface, number of poles/wires OTEU  Diagnostics Communication error System diagnostics Undervoltage Additional functions System status can be indicated via process data Activate diagnostics Fail-safe and idle response  Control elements Internal cycle time Internal cycle time Internal cycle time Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Power supply, connection technology	M12x1, A-coded as per EN 61076-2-101
Fieldbus interface, function  Bus connection, incoming/forwarding Fieldbus interface, transmission rate  156 - 10000 kbit/s Fieldbus interface, galvanic isolation  yes Fieldbus interface, connection pattern  00995638  Power supply, connection pattern  00995383  Fieldbus interface, connection technology  Sub-D  Fieldbus interface, connection type  Socket  Note on degree of protection  In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  9  Power supply, number of pins/wires  5  Width dimension  40 mm  Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics  Fail-safe and idle response  Control elements  Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  Intrinsic current consumption at nominal operating voltage  Max. power supply  4 A  Nominal operating voltage DC  24 V	Power supply, type of connection	Plug
Fieldbus interface, transmission rate Fieldbus interface, galvanic isolation Fieldbus interface, onnection pattern  O0995388  Power supply, connection pattern  O0995383  Fieldbus interface, connection technology  Sub-D  Fieldbus interface, connection type  Socket  Note on degree of protection  In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  Fieldbus interface, number of pins/wires  Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  5  Width dimension  Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements  Internal cycle time  Diagnostica process  In mounted state Internal cycle time  Type, 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Fieldbus interface, type	Serial interface
Fieldbus interface, galvanic isolation Fieldbus interface, connection pattern O0995638 Power supply, connection pattern O0995383 Fieldbus interface, connection technology Sub-D Fieldbus interface, connection type Socket Note on degree of protection In mounted state Unused connections sealed Fieldbus interface, number of poles/wires 9 Power supply, number of pins/wires 5 Width dimension 40 mm Type code CTEU Diagnostics Communication error System diagnostics Undervoltage Additional functions System status can be indicated via process data Activate diagnostics Fiel-safe and idle response Control elements Internal cycle time 1 ms per 1 byte of user data DC operating voltage range Intrinsic current consumption at nominal operating voltage Max. power supply 14 A Nominal operating voltage DC 24 V	Fieldbus interface, function	Bus connection, incoming/forwarding
Fieldbus interface, connection pattern  O0995638  Power supply, connection pattern  O0995383  Fieldbus interface, connection technology  Fieldbus interface, connection type  Note on degree of protection  In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  5  Width dimension  40 mm  Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements  In ms per 1 byte of user data  DC operating voltage range  In yn. 30 V  Intrinsic current consumption at nominal operating voltage  Max. power supply  4 A  Nominal operating voltage DC  24 V	Fieldbus interface, transmission rate	156 - 10000 kbit/s
Power supply, connection pattern  Fieldbus interface, connection technology  Fieldbus interface, connection type  Socket  Note on degree of protection  In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  9  Power supply, number of pins/wires  5  Width dimension  40 mm  Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  Parameterization  Activate diagnostics  Fail-safe and idle response  Control elements  In me per 1 byte of user data  BY 30 V  Intrinsic current consumption at nominal operating voltage  Max. power supply  4 A  Nominal operating voltage DC  24 V	Fieldbus interface, galvanic isolation	yes
Fieldbus interface, connection technology  Fieldbus interface, connection type  Socket  Note on degree of protection  In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  9  Power supply, number of pins/wires  5  Width dimension  Type code  CTEU  Diagnostics  Communication error System diagnostics  Undervoltage  Additional functions  Farameterization  Activate diagnostics  Fail-safe and idle response  Control elements  Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Max. power supply  A A  Nominal operating voltage DC  Sub-D  Socket  In mounted state Unused connections sealed  Fall mounted state Unused connections sealed  In mounted state Unused connections sealed  Fall mounted state Unused connections sealed  Socket  In mounted state Unused connections sealed  Fall mounted state Unused connections sealed  In mounted state Unused connections sealed  Socket  In mounted state Unused connections sealed  Fall mounted state Unused connections sealed  Socket  In mounted state Unused connections sealed  Fall mounted state Unused connections sealed  Socket  In mounted state Unused connections sealed  Fall mounted s	Fieldbus interface, connection pattern	00995638
Fieldbus interface, connection type  Note on degree of protection  In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  Fower supply, number of poles/wires  Fower supply, number of poles/wires  Fower supply  Fo	Power supply, connection pattern	00995383
In mounted state Unused connections sealed  Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  5 Width dimension  Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements  In mounted state Unused connections sealed  Formunication error System diagnostics Undervoltage  Activate diagnostics Fail-safe and idle response  Control elements  DIL switch  Internal cycle time  I ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC	Fieldbus interface, connection technology	Sub-D
Unused connections sealed Fieldbus interface, number of poles/wires  Power supply, number of pins/wires  5 Width dimension  Type code  CTEU  Diagnostics  Additional functions  Parameterization  Communication error System diagnostics Undervoltage  Activate diagnostics Fail-safe and idle response  Control elements Internal cycle time  DC operating voltage range  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  Vamber of poles/wires  9  Conmunication serror System diagnostics Undervoltage  Communication error System diagnostics Undervoltage Undervoltage  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  1 ms per 1 byte of user data  Typ. 70 mA	Fieldbus interface, connection type	Socket
Power supply, number of pins/wires  5 Width dimension  40 mm  Type code  CTEU  Diagnostics  Communication error System diagnostics  Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements  DIL switch  Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Note on degree of protection	
Width dimension  40 mm  Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements  DIL switch Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Fieldbus interface, number of poles/wires	9
Type code  CTEU  Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements  DIL switch Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Max. power supply  4 A  Nominal operating voltage DC  24 V	Power supply, number of pins/wires	5
Diagnostics  Communication error System diagnostics Undervoltage  Additional functions  System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements  DIL switch Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Width dimension	40 mm
System diagnostics Undervoltage  Additional functions System status can be indicated via process data  Activate diagnostics Fail-safe and idle response  Control elements DIL switch Internal cycle time 1 ms per 1 byte of user data DC operating voltage range 18 V 30 V Intrinsic current consumption at nominal operating voltage Typ. 70 mA  Max. power supply 4 A  Nominal operating voltage DC  System diagnostics Undervoltage System diagnostics Undervoltage System diagnostics Undervoltage value indicated via process data  Activate diagnostics Fail-safe and idle response  1 ms per 1 byte of user data  1 ms per 2 byte of user data  2 V 30 V  A A  Nominal operating voltage DC	Type code	CTEU
Parameterization  Activate diagnostics Fail-safe and idle response  Control elements  DIL switch Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Diagnostics	System diagnostics
Fail-safe and idle response  Control elements  DIL switch  Internal cycle time  1 ms per 1 byte of user data  DC operating voltage range  18 V 30 V  Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Additional functions	System status can be indicated via process data
Internal cycle time 1 ms per 1 byte of user data  DC operating voltage range 18 V 30 V  Intrinsic current consumption at nominal operating voltage Typ. 70 mA  Max. power supply 4 A  Nominal operating voltage DC 24 V	Parameterization	
DC operating voltage range 18 V 30 V Intrinsic current consumption at nominal operating voltage Typ. 70 mA  Max. power supply 4 A  Nominal operating voltage DC 24 V	Control elements	DIL switch
Intrinsic current consumption at nominal operating voltage  Typ. 70 mA  Max. power supply  4 A  Nominal operating voltage DC  24 V	Internal cycle time	1 ms per 1 byte of user data
Max. power supply 4 A Nominal operating voltage DC 24 V	DC operating voltage range	18 V 30 V
Nominal operating voltage DC 24 V	Intrinsic current consumption at nominal operating voltage	Typ. 70 mA
	Max. power supply	4 A
Protocol CC-LINK®	Nominal operating voltage DC	24 V
	Protocol	CC-LINK®

Feature	Value
CE marking (see declaration of conformity)	As per EU EMC directive
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Storage temperature	-20 °C 70 °C
Degree of protection	IP65 IP67
Ambient temperature	-5 ℃ 50 ℃
Certification	RCM compliance mark c UL us - Listed (OL)
Product weight	90 g
Max. address capacity outputs	16 byte
Max. address capacity inputs	16 byte
LED display (bus-specific)	Err: data transmission error Run: bus active
LED display (product-specific)	PS: operating voltage for electronics and load supply X1: module system status at I-Port 1 X2: module system status at I-Port 2
Note on materials	Contains paint-wetting impairment substances RoHS-compliant
Housing material	PA