



10 - 30 V  
DC



- Connector unit for easy connection of the BCL 8
- M12 connector
- Operating temperature 0°C ... +50°C

ISO  
9001

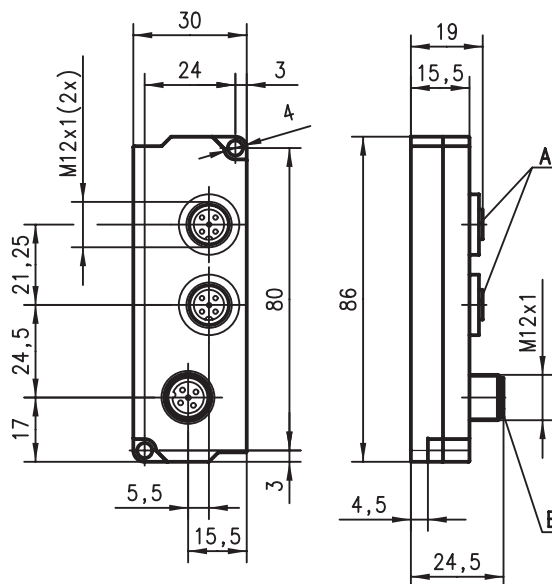


## Accessories:

(available separately)

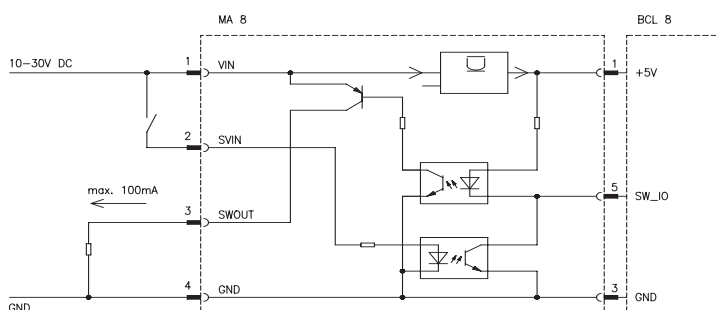
- Cable KB 008 for connecting the connector unit to the BCL 8 also provides connections for RS 232, Power, and I/O, see separate data sheet

## Dimensioned drawing



- A 5-pin socket  
B 5-pin plug

## Electrical connection





## Specifications

### Electrical data

Operating voltage $U_B$	10 ... 30 V DC
Power consumption	max. 0.5 W

### Mechanical data


Housing	plastic
Dimensions	86x30x25 mm <sup>3</sup> (WxHxD)
Weight	70 g
Connection type	M12 connector

### Environmental data


Ambient temp. (operation/storage)	0°C ... +50°C/-30°C ... +80°C
Protection class	IP 67
Valid standards document	acc. to IEC 801
Air humidity	max. 90% rel. humidity, non-condensing

## Connector pin assignment


### Plug PWR IN-HOST/RS232

Pin No.	Input/output (for MA device)	Signal	
			
1	I	Supply voltage	10 ... 30 VDC
2	O	RS 232/TxD	data from BCL 8 to Host
3	I	Ground	
4	I	RS 232/RxD	data from Host to BCL 8
5	I	PE	protective earth

### Socket SW IN/OUT

Pin No.	Input/output (for MA device)	Signal	
			
1	O	Sensor/actuator supply voltage	10 ... 30 VDC, coupled to the supply voltage at the system
2	O	SWOUT	switching output
3	O	Ground	
4	I	SWIN	switching input
5	O	PE	protective earth

### Socket BCL

Pin No.	Input/output (for MA device)	Signal	
			
1	O	BCL supply voltage	5.2 ... 5.6 VDC
2	I	RS 232/TxD	data from BCL 8 to Host
3	O	Ground	
4	O	RS 232/RxD	data from Host to BCL 8
5	I/O	SWIN/SWOUT	programmable switching input/output of the BCL 8

## Order guide

	Type	Order code
Connector unit for BCL 8	MA 8	500 40091

## BCL 8

## Connectors, plugs, cables

### Connectors

KD 095-5 (Part No. 500 20502)



KD 095-5A (Part No. 500 20501)



### Connection cable

KB 008-3000A (Part No. 500 40757)



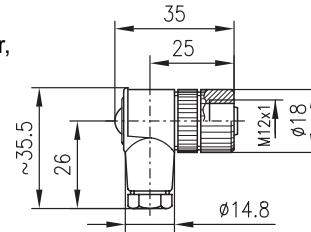
KB 008-3000R (Part No. 500 40756)



### Dimensioned drawings

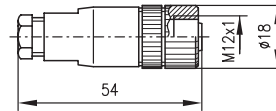
KD 095-5

Female angled connector,  
plastic locking system



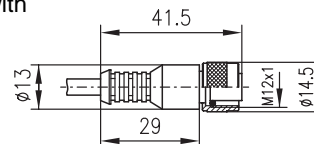
KD 095-5A

Female cable connector,  
plastic locking system



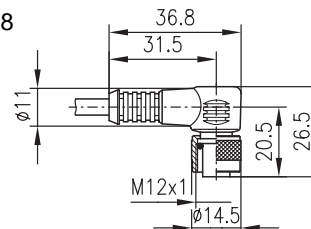
KB 008-3000A

Connection cable BCL 8  
and MA 8, M12, 5-pin with  
one axial socket, 3m  
long, PUR cable, UL,  
5x0.25 mm<sup>2</sup>



KB 008-3000R

Connection cable BCL 8  
and MA 8, M12, 5-pin  
with one angled  
socket, 3m long, PUR  
cable, UL, 5x0.25 mm<sup>2</sup>

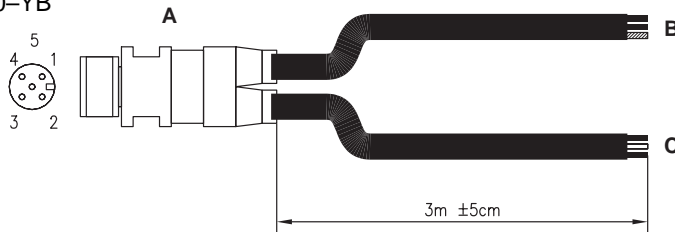


## Connectors, plugs, cables

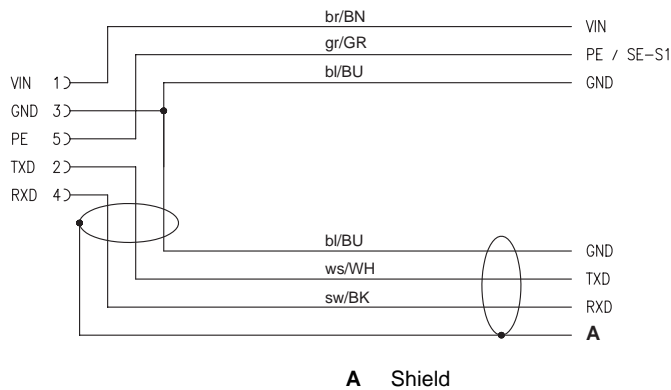
**BCL 8**

### Connection drawing

KB 008-3000-YB



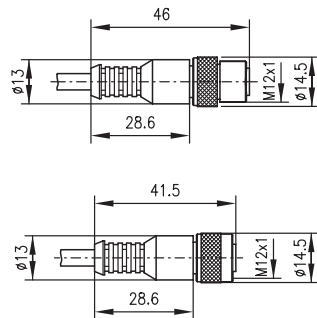
- A** Coupler plug and socket connection M12 x 1, 5-pin
- B** Line, 3-wire, flexcord (PVC)P00, 3 x 0.34 mm²
- C** Line, 3-wire shielded, flexcord (PVC)P00, 3 x 0.25 mm²



### Dimensioned drawings

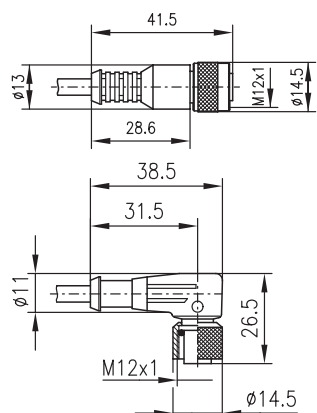
KB 008-x000AA

Connection cable BCL 8 to  
MA 8, M12, 5-pin with one  
axial socket and one axial  
plug, PUR cable, UL,  
5x0.25mm²



KB 008-x000AR

Connection cable BCL 8 to  
MA 8, M12, 5-pin with one  
axial socket and one angled  
plug, PUR cable, UL,  
5x0.25mm²



### Y connection cable

KB 008-3000-YB (Part No. 500 40579) 3m



### Connection cable

KB 008-1000AA (Part No. 500 40763) 1 m long  
KB 008-2000AA (Part No. 500 40762) 2 m long  
KB 008-3000AA (Part No. 500 40761) 3 m long



KB 008-1000AR (Part No. 500 40760) 1 m long  
KB 008-2000AR (Part No. 500 40759) 2 m long  
KB 008-3000AR (Part No. 500 40758) 3 m long



**BCL 8**
**Mounting systems**
**Mounting systems**

UMS 8-D10 (Ø10mm, Part No. 500 35020)  
 UMS 8-D12 (Ø12mm, Part No. 500 35021)  
 UMS 8-D14 (Ø14mm, Part No. 500 35022)



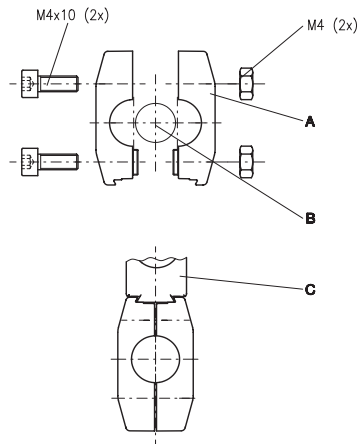
UMS 8.1-D10 (Ø10mm, Part No. 500 35023)  
 UMS 8.1-D12 (Ø12mm, Part No. 500 35024)  
 UMS 8.1-D14 (Ø14mm, Part No. 500 35025)



UMS 8.2-D10 (Ø10mm, Part No. 500 35026)  
 UMS 8.2-D12 (Ø12mm, Part No. 500 35027)  
 UMS 8.2-D14 (Ø14mm, Part No. 500 35028)

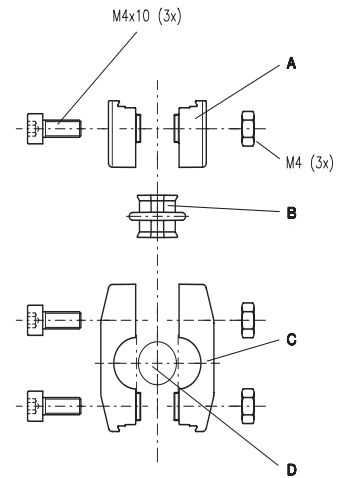

**Dimensioned drawings**

UMS 8-D...

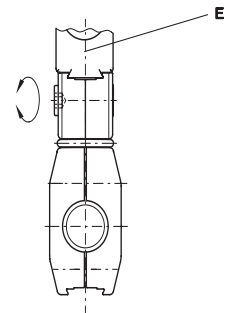


- A** Clamp
- B** Rod
- C** Sensor

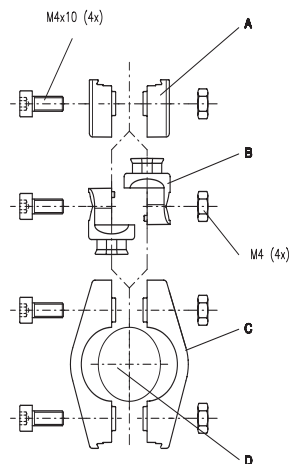
UMS 8.1-D...



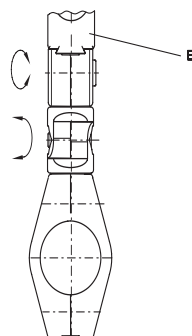
- A** Mount
- B** Joint
- C** Clamp
- D** Rod
- E** Sensor



UMS 8.2-D...



- A** Mount
- B** Joint
- C** Clamp
- D** Rod
- E** Sensor

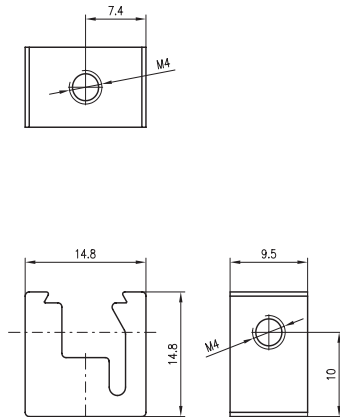


## Mounting systems

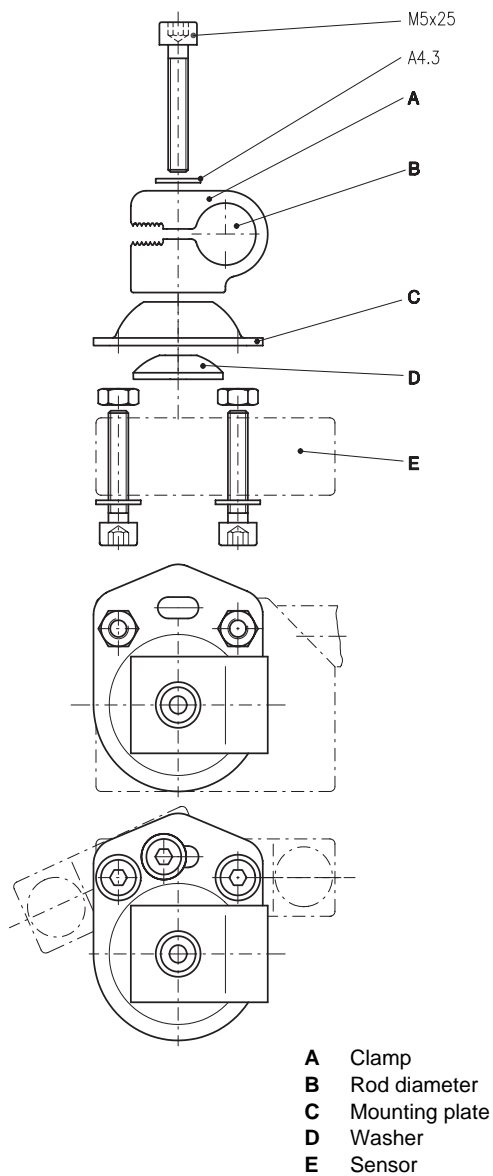
**BCL 8**

### Dimensioned drawings

BT 8-0

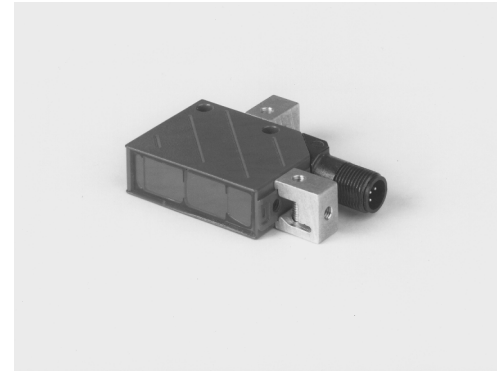


BT 8-D ...



### Mounting systems

BT 8-0 (Part No. 500 35017)



BT 8-D10 (Ø10mm, Part No. 500 35017)

BT 8-D12 (Ø12mm, Part No. 500 35018)

BT 8-D14 (Ø14mm, Part No. 500 35019)

