

## Sensors, Series SN5-X



AVENTICS™ Sensors, Series SN5-X

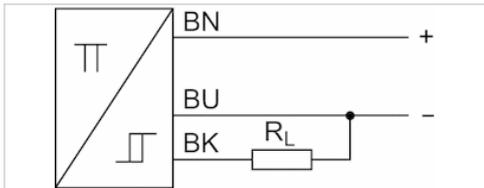


# Sensor, Series SN5-X

- 3-pin
- welding-proof
- With stretched impulse
- Sensor responds to ferromagnetic material., welding-proof, With stretched impulse
- electronic PNP
- Indirect mounting for series TRB, ITS



Ambient temperature min./max.	-10 ... 70 °C
Protection class	IP65
Nominal current, actuated state	25 mA
Quiescent current (without load)	14 mA
LED status display	See table below
Weight	0.05 kg



## Technical data

Part No.	Type of contact	Voltage drop U at I <sub>max</sub>	LED status display
0830100500	electronic PNP	≤ 2,0 V	Red
0830100502	electronic PNP	≤ 2,0 V	Red Green

Part No.	Version	Switch signal	welding-proof
0830100500	Protected against polarity reversal	With stretched impulse	welding-proof
0830100502	Protected against polarity reversal	With stretched impulse	welding-proof

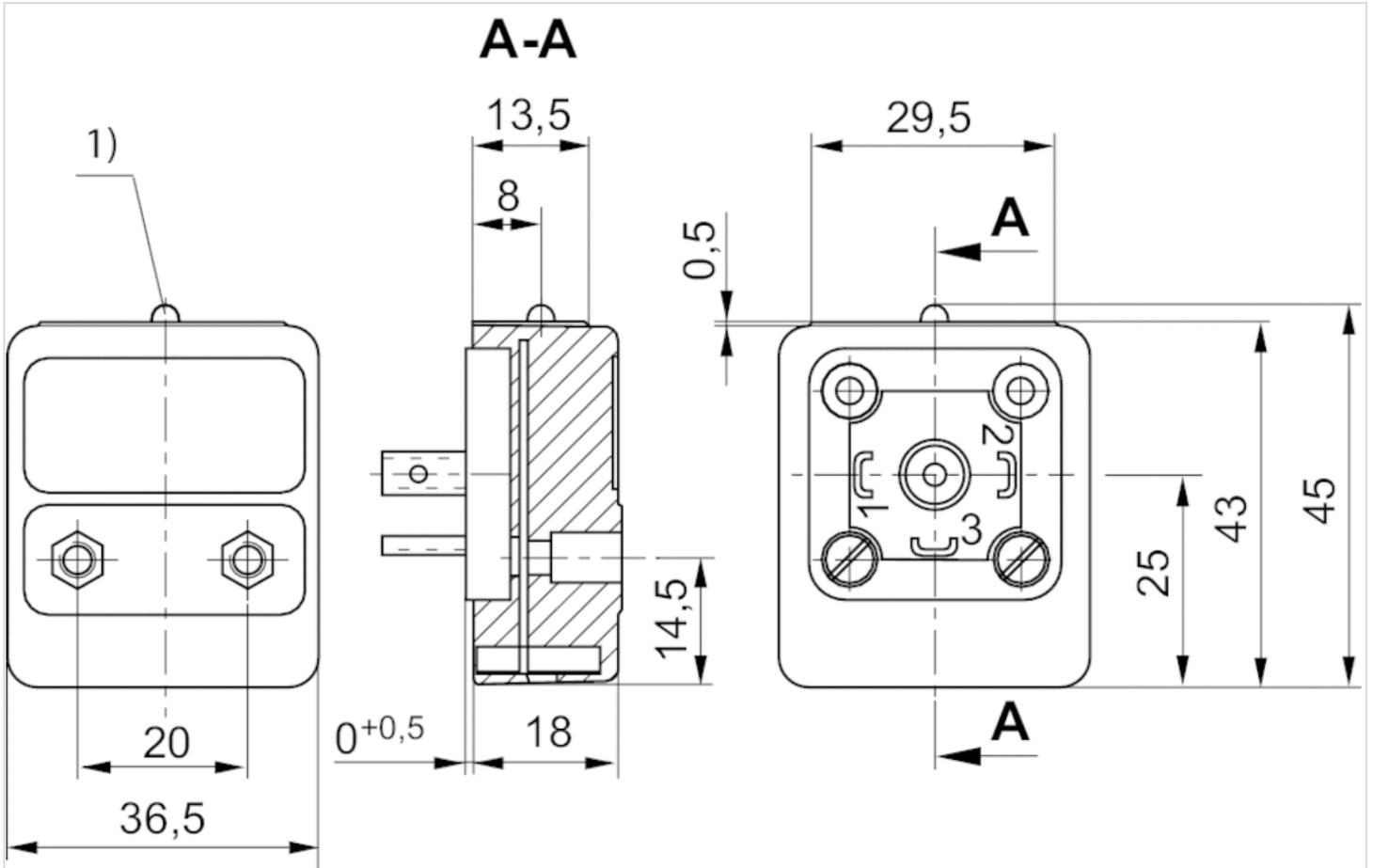
## Technical information

Sensor responds to ferromagnetic material.

## Technical information

Material	
Housing	epoxy resin

Dimensions



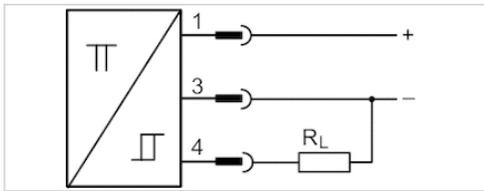
1) LED

# Sensor, Series SN5-X

- Socket, M12, 3-pin
- With stretched impulse Time delay
- Sensor responds to ferromagnetic material., Time delay, With stretched impulse
- electronic PNP
- Indirect mounting for series TRB, ITS



Ambient temperature min./max.	-10 ... 70 °C
Protection class	IP67
Switching point precision	±0,1 mT
Nominal current, actuated state	25 mA
Quiescent current (without load)	14 mA
Min./max. DC operating voltage	15 ... 30 V DC
Display	LED
LED status display	See table below



## Technical data

Part No.	Type of contact	Voltage drop U at I <sub>max</sub>	DC switching current, max.
0830100525	electronic PNP	≤ 2,0 V	0.2 A
0830100534	electronic PNP	≤ 2,0 V	0.2 A

Part No.	LED status display	Version
0830100525	Yellow	Protected against polarity reversal
0830100534	Yellow Green	short circuit resistant Protected against polarity reversal

Part No.	Switch signal	
0830100525	With stretched impulse	-
0830100534	Time delay	1)

1) Delivery incl. protective cap 1823317014

## Technical information

Sensor responds to ferromagnetic material.

## Technical information

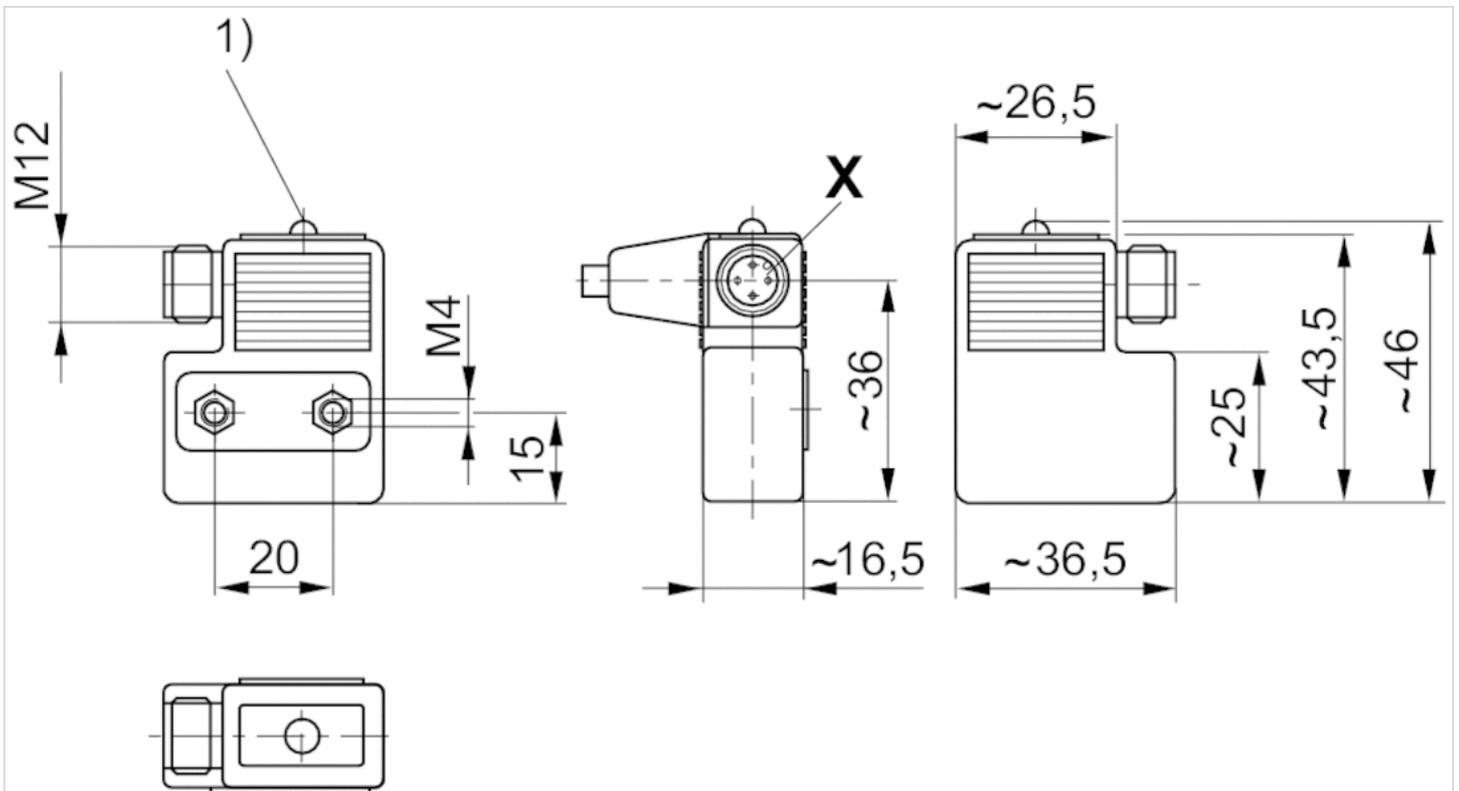
Material

Housing

epoxy resin

## Dimensions

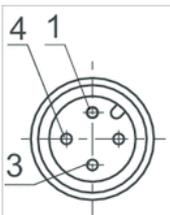
Dimensions



1) LED

## Pin assignments

Pin assignments



Pin	1	3	4
Allocation	(+)	(-)	(OUT)

# Sensor mounting, Series CB1

- for series SN5-X

- to mount on cylinder TRB



Weight

See table below

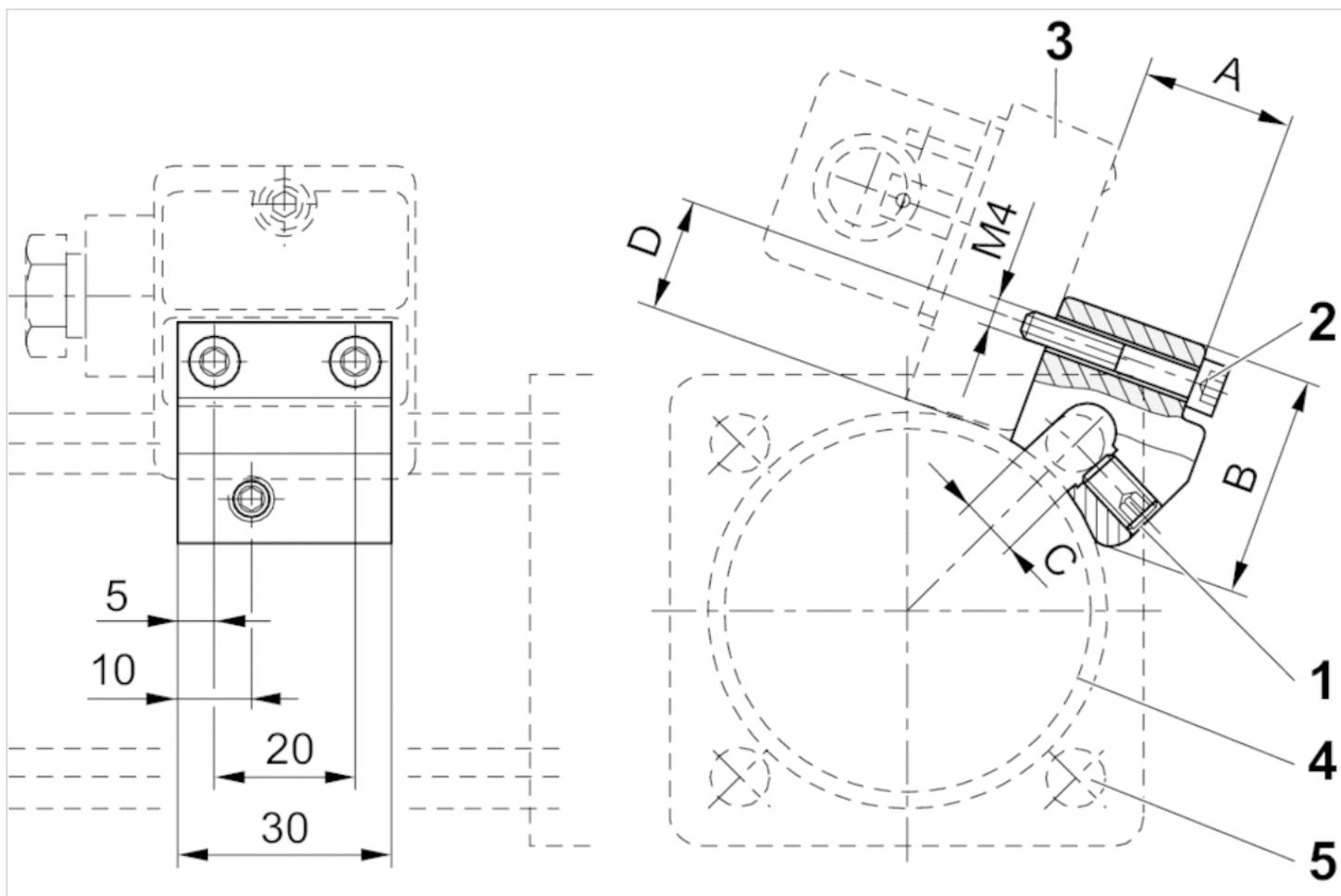
## Technical data

Part No.	Cylinders Ø		for series	Weight
	min.	max.		
1827020056	32 mm	40 mm	SN5-X	0.03 kg
1827020057	50 mm	63 mm	SN5-X	0.035 kg
1827020058	80 mm	100 mm	SN5-X	0.4 kg

## Technical information

Material	
	Aluminum

## Dimensions



1) Clamping threaded pin 2) Mounting screw for sensor 3) Sensor 4) Cylinder profile 5) Tie rod

## Dimensions

Part No.	A	B	C	D	SW
1827020056	19.5	30	6	15	3
1827020057	24.5	30	8	15	3
1827020058	29.5	31	10	15	3

# Sensor mounting, Series CB1

- for series SN5-X

- to mount on cylinder TRB, ITS



Weight

See table below

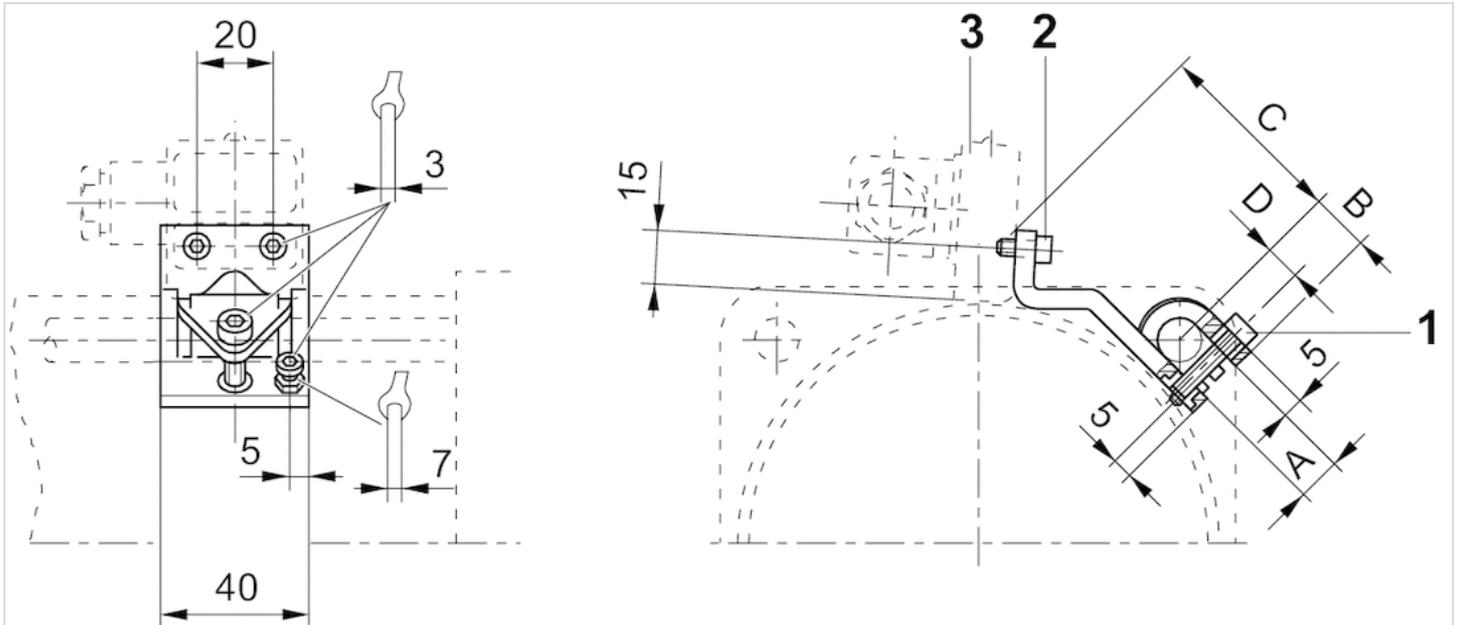
## Technical data

Part No.	Cylinders Ø		for series	Weight
	min.	max.		
1827020076	3175 mm	125 mm	SN5-X	0.075 kg
1827020077	160 mm	200 mm	SN5-X	0.083 kg
1827020078	6350 mm	250 mm	SN5-X	0.094 kg

## Technical information

Material	
	Aluminum

## Dimensions



1) Mounting screw 2) Mounting screw for sensor 3) Sensor

## Dimensions

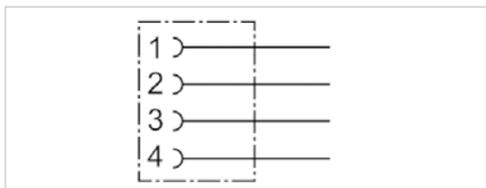
Part No.	A +0,5	B ±1	C ±2	D
1827020076	12	15	54	9
1827020077	16	17	53	11
1827020078	20	19	60	13

# Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Weight	0.015 kg



## Technical data

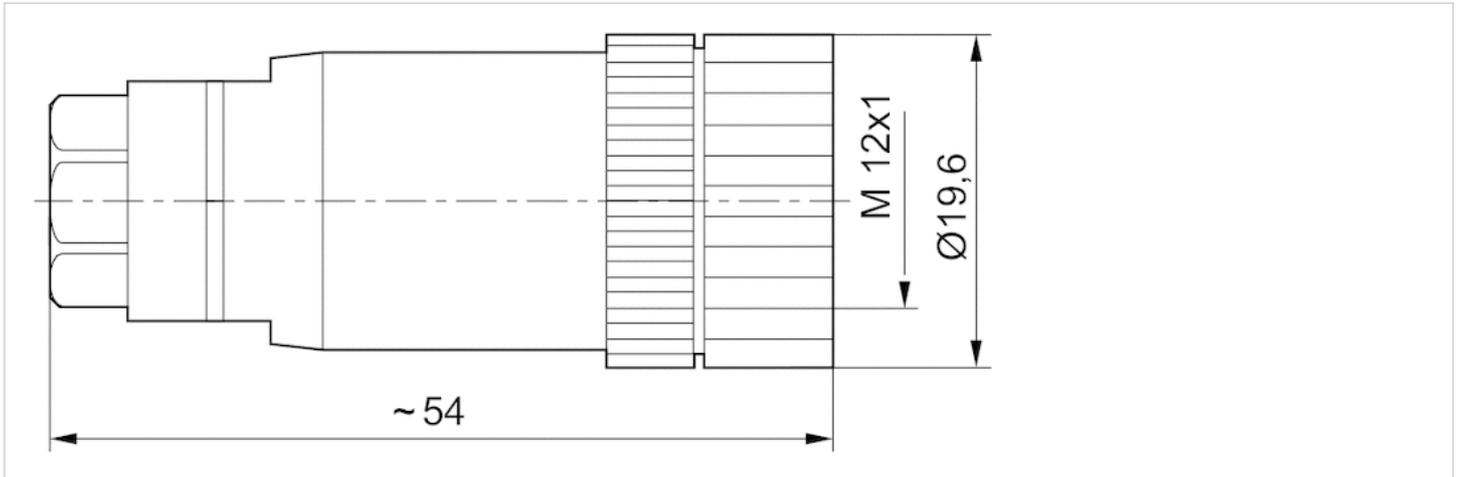
Part No.	Max. current	suitable cable-Ø min./max
1834484177	4 A	4 / 6 mm

## Technical information

Material	
Housing	Polyamide

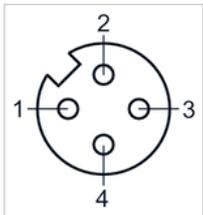
## Dimensions

### Dimensions



## Pin assignments

### Pin assignment, socket

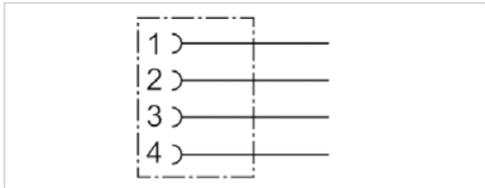


# Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, angled, 90°
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 85 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Weight	0.016 kg



## Technical data

Part No.	Max. current	suitable cable-Ø min./max
1834484178	4 A	4 mm

## Technical information

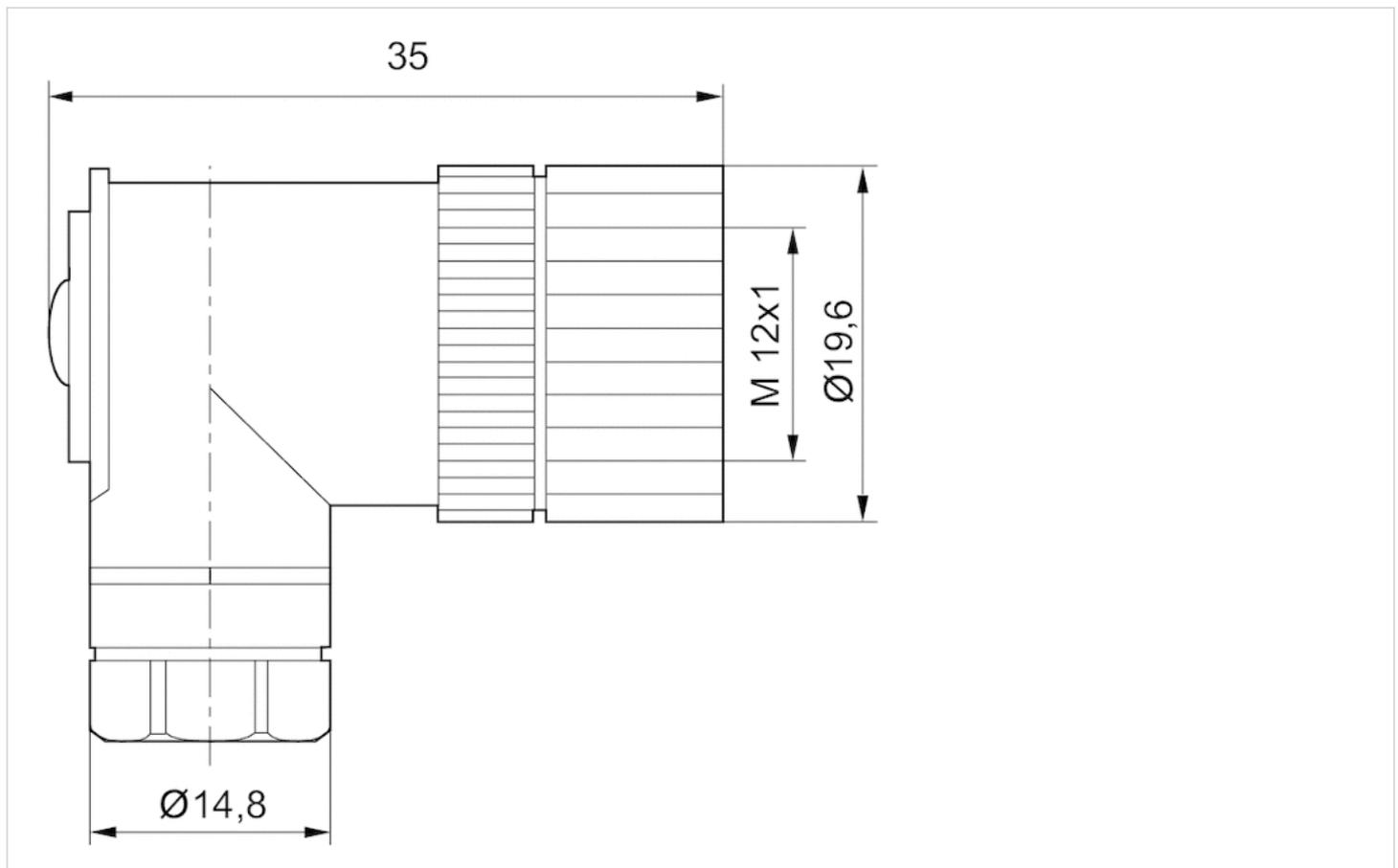
The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Housing	Polyamide

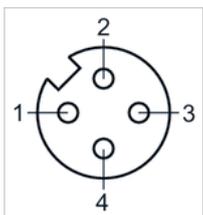
## Dimensions

## Dimensions



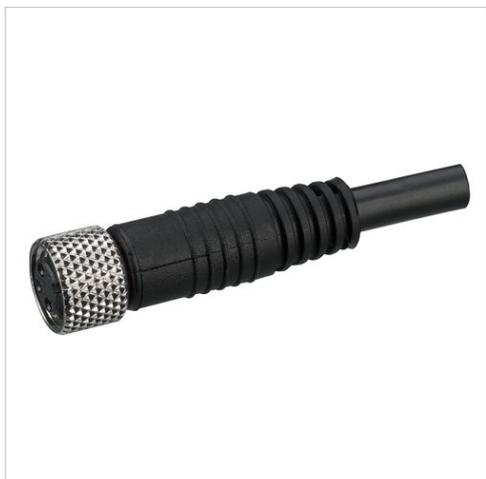
## Pin assignments

## Pin assignment, socket

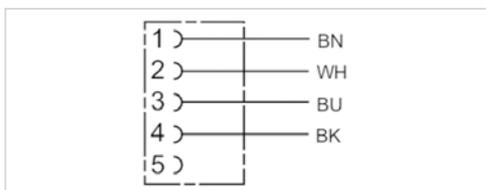


# Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded straight 180°
- open cable ends
- with cable
- unshielded



Ambient temperature min./max.	-25 ... 70 °C
Operational voltage	48 V AC/DC
Protection class	IP67
Wire cross-section	0.34 mm <sup>2</sup>
Weight	See table below



## Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
1834484256	4 A	4	5.2 mm	3 m	0.122 kg
1834484257	4 A	4	5.2 mm	5 m	0.194 kg
1834484258	4 A	4	5.2 mm	10 m	0.373 kg

## Technical information

The specified protection class is only valid in assembled and tested state.

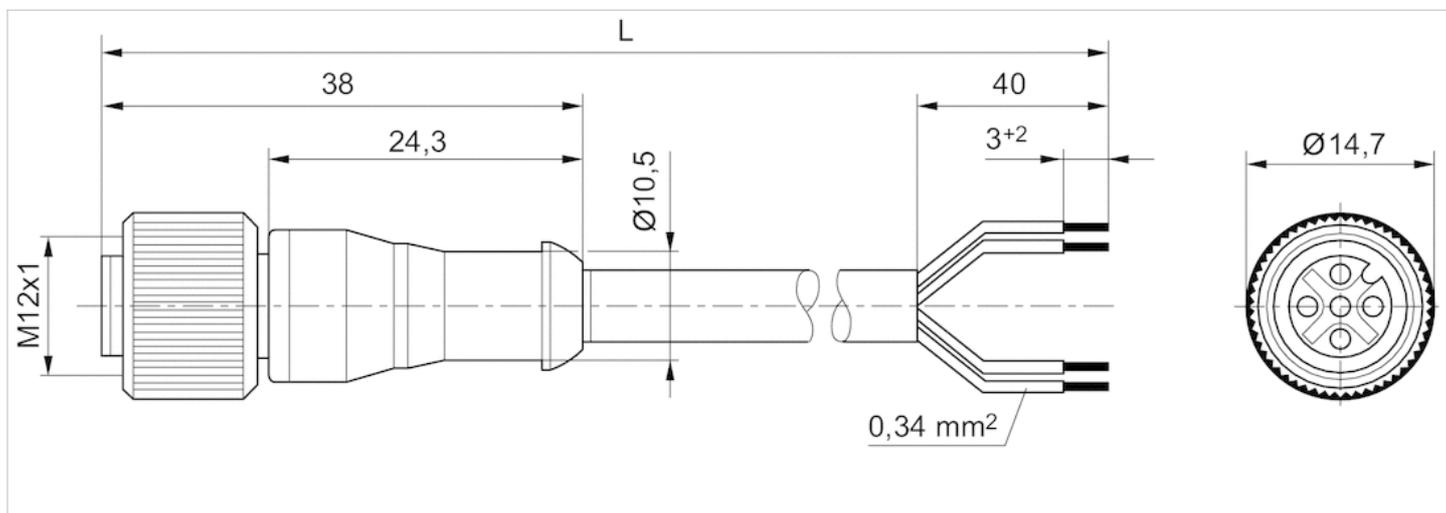
## Technical information

### Material

Cable sheath	Polyurethane
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## Dimensions

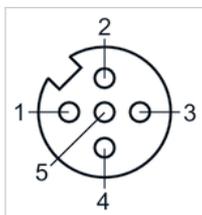
### Dimensions



L = length

## Pin assignments

### Pin assignment, socket



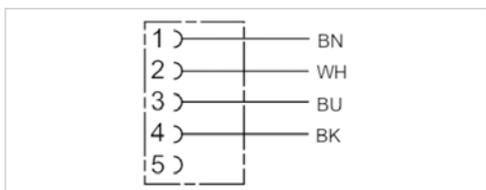
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

# Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded angled 90°
- open cable ends
- for DeviceNet
- with cable
- unshielded



Ambient temperature min./max.	-40 ... 85 °C
Operational voltage	48 V AC/DC
Protection class	IP65
Wire cross-section	0.34 mm <sup>2</sup>
Weight	See table below



## Technical data

Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
1834484259	4 A	4	5.2 mm	3 m	0.126 kg
1834484260	4 A	4	5.2 mm	5 m	0.195 kg
1834484261	4 A	4	5.2 mm	10 m	0.38 kg

## Technical information

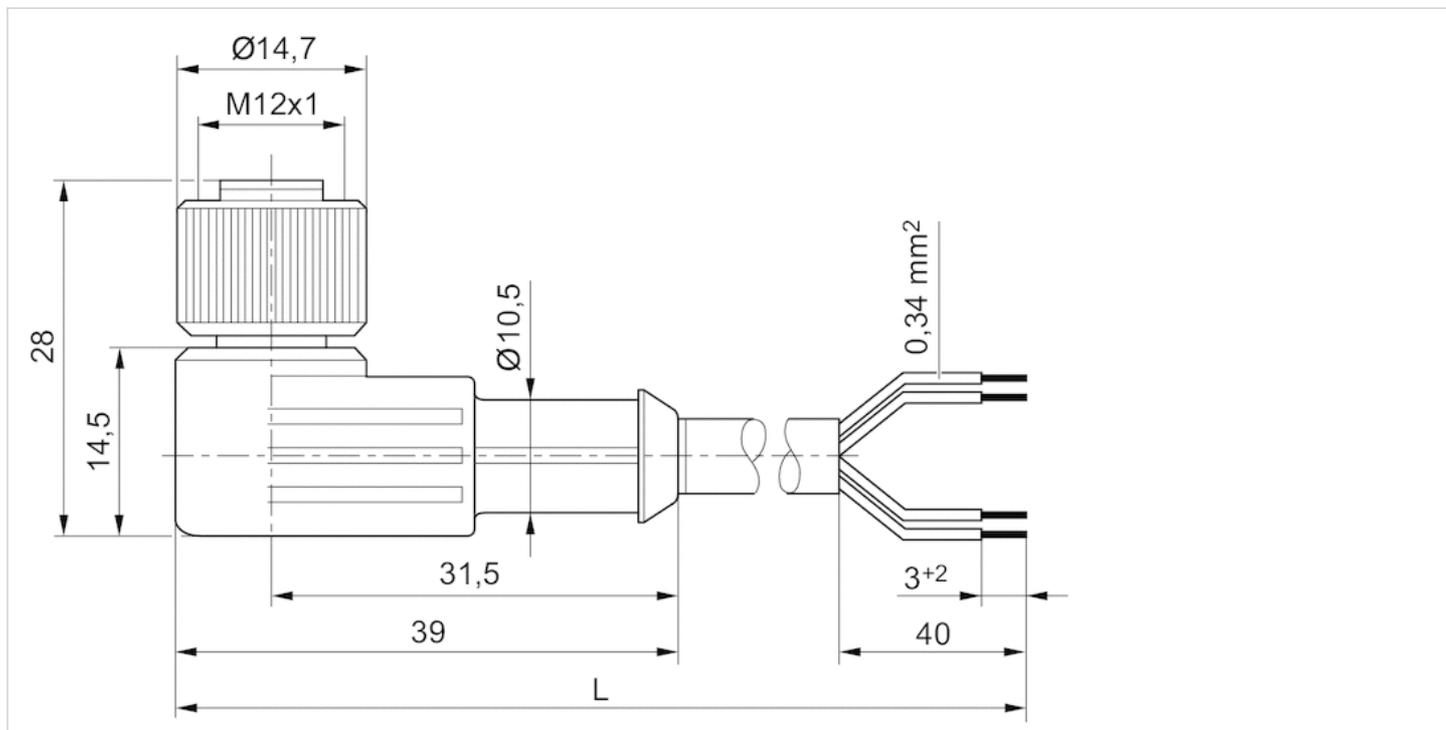
The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Cable sheath	Polyurethane

## Dimensions

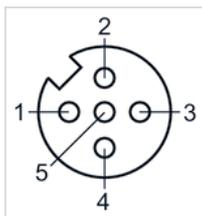
### Dimensions



L = length

## Pin assignments

### Pin assignment, socket



- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

# Valve plug connector, series CON-VP

- Socket form A 2+E angled 90°
- open cable ends 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-20 ... 80 °C
Operational voltage	230 V AC/DC
Protection class	IP67
Wire cross-section	0.75 mm <sup>2</sup>
Mounting screw tightening torque	0.4 Nm
Weight	0.2 kg



## Technical data

Part No.	Contact assignment	Number of wires	Cable-Ø	Cable length	Fig.
1834484160	2+E	3	5.9 mm	3 m	Fig. 1

Scope of delivery incl. flat gasket

## Technical information

The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

# Dimensions

Fig. 1

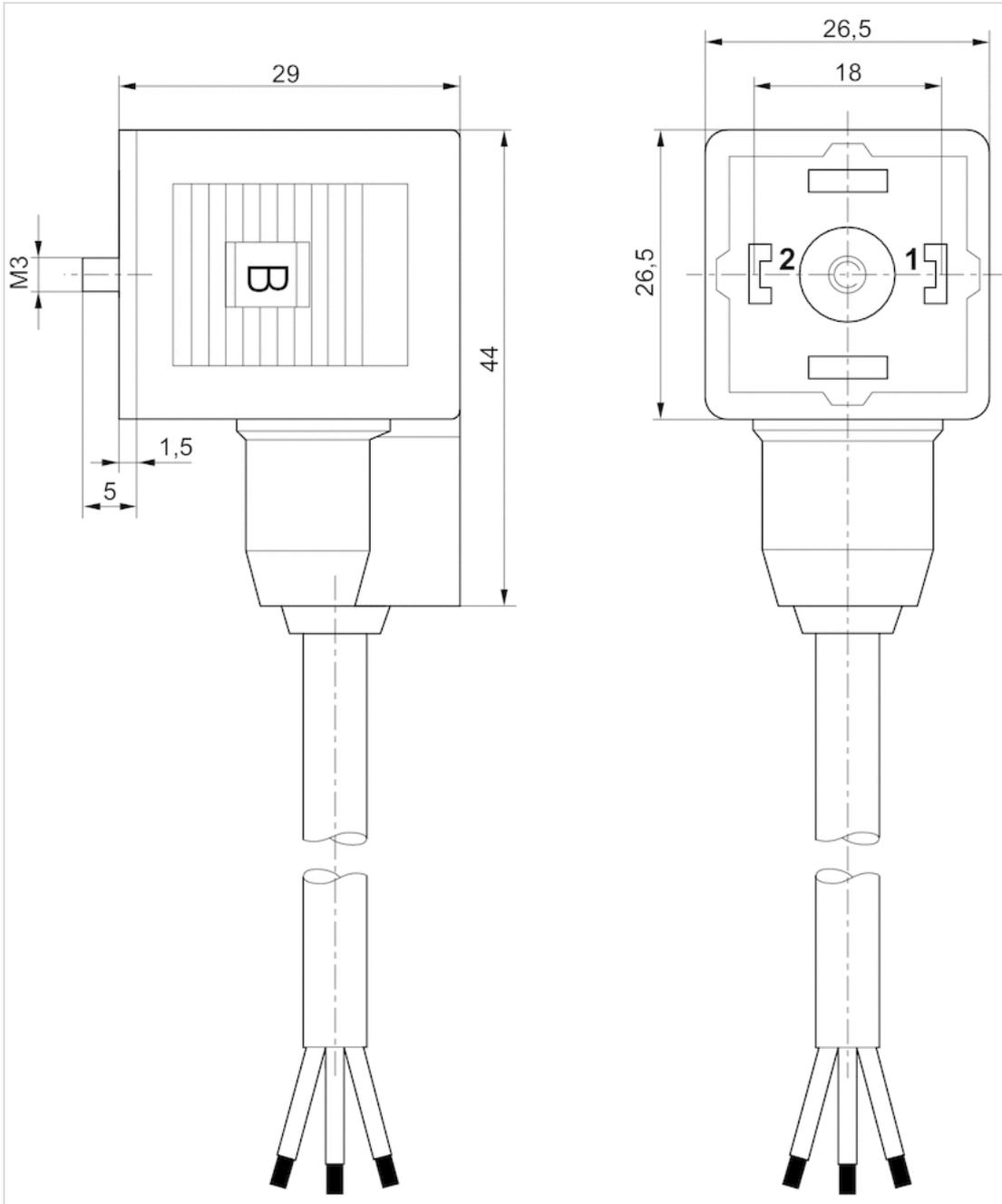
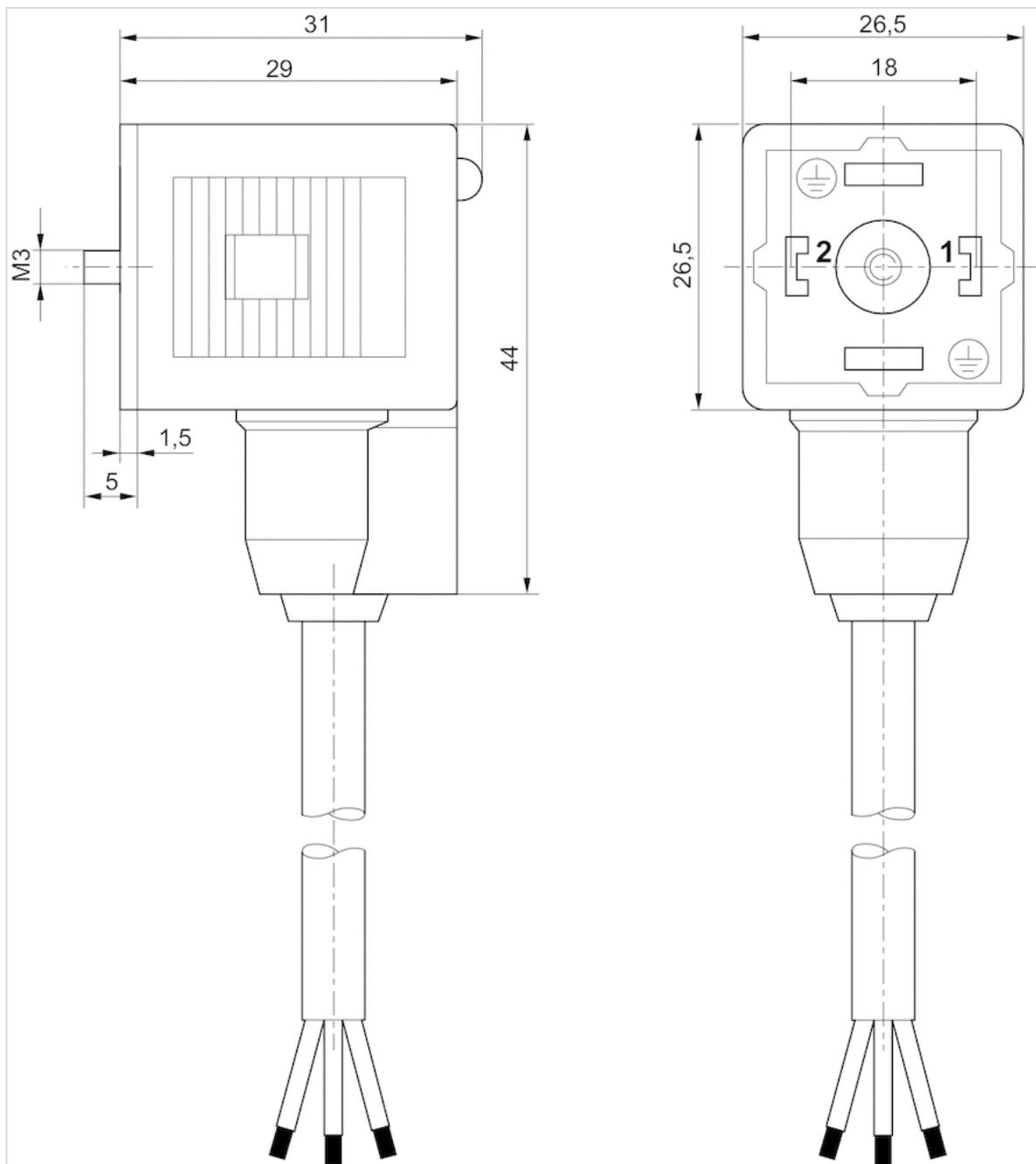


Fig. 2



# Valve plug connector, series CON-VP

- Socket, 3+E, angled, 90°
- EN 175301-803
- unshielded



Connection type	Screws
Ambient temperature min./max.	-40 ... 90 °C
Protection class	IP65
Mounting screw tightening torque	0.4 Nm
Weight	0.03 kg



## Technical data

Part No.	Max. current	Contact assignment	suitable cable-Ø min./max
1834484059	10 A	3+E	6 / 8 mm

Profile seal

## Technical information

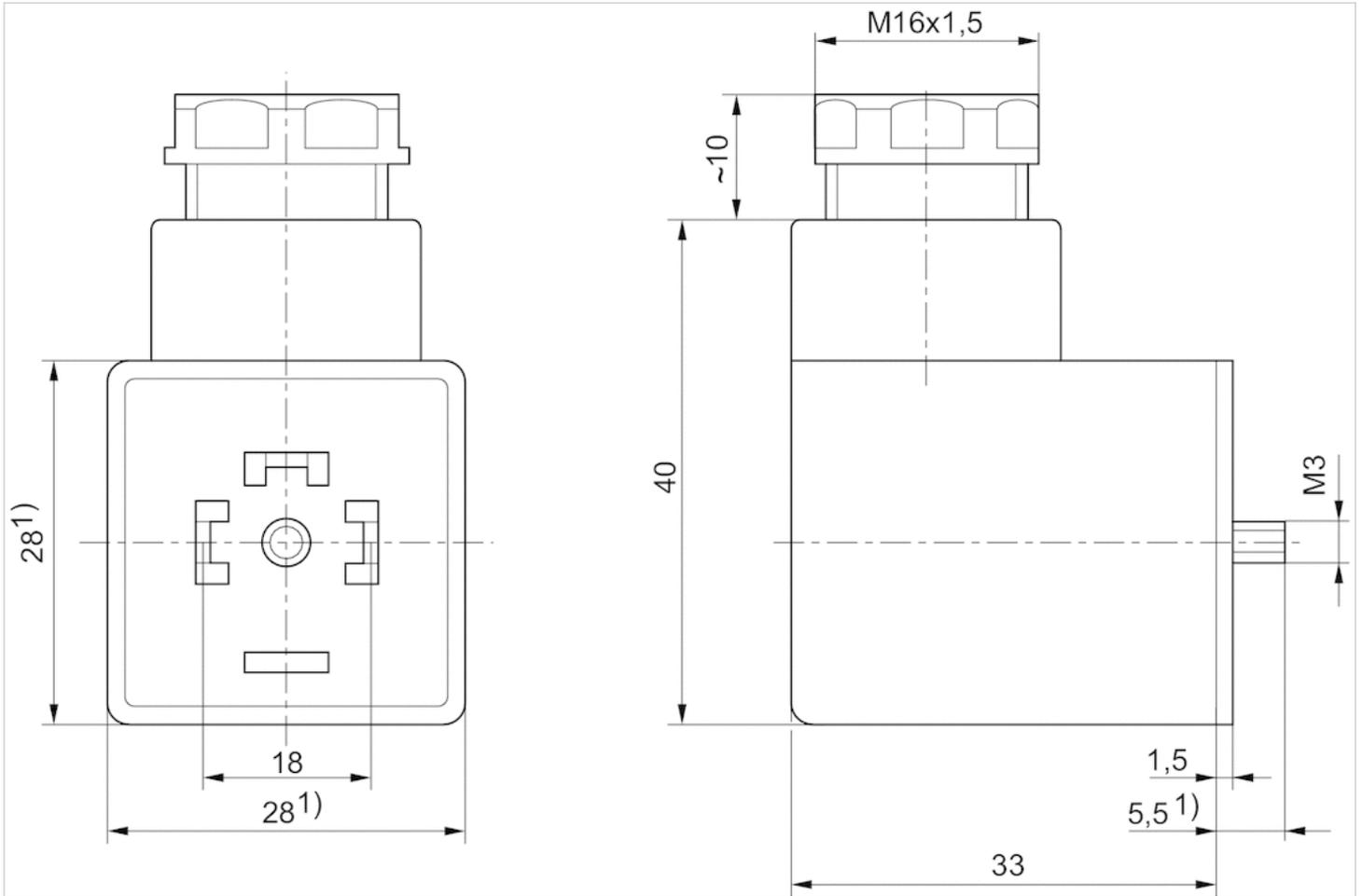
The specified protection class is only valid in assembled and tested state.

## Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc

## Dimensions

### Dimensions



1) Max.

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