Sensors, Series SN5-X

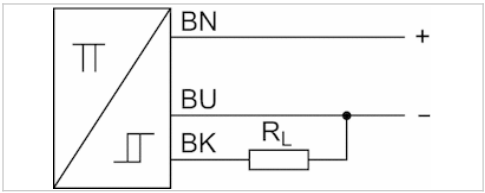
AVENTICS™ Sensors, Series SN5-X

EMERSON.

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 Imax	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

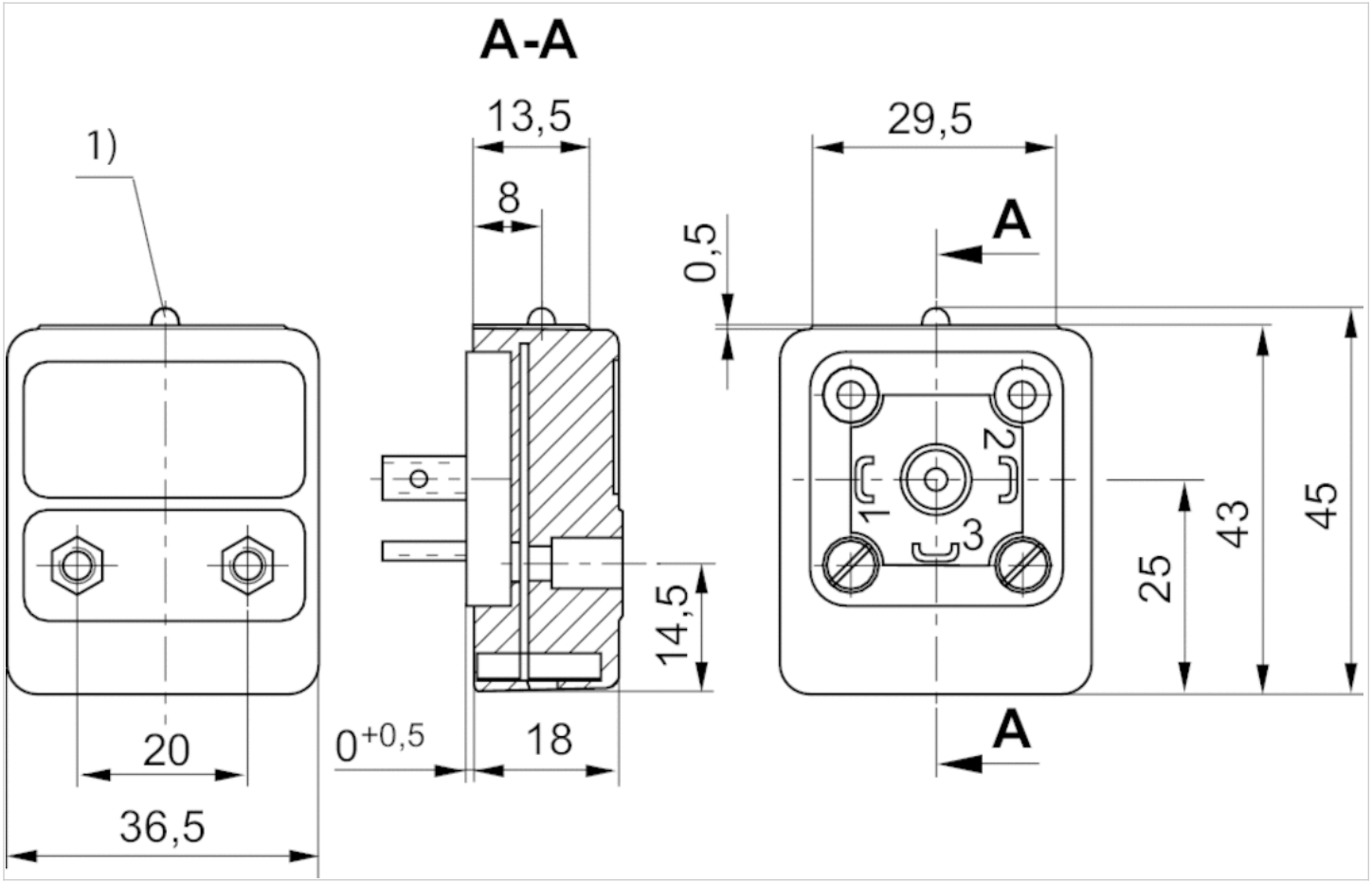
Technical information

Sensor responds to ferromagnetic material.

Technical information

Material	
Housing	epoxy resin

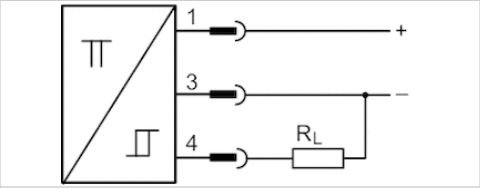
Dimensions



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 Imax	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

Technical information

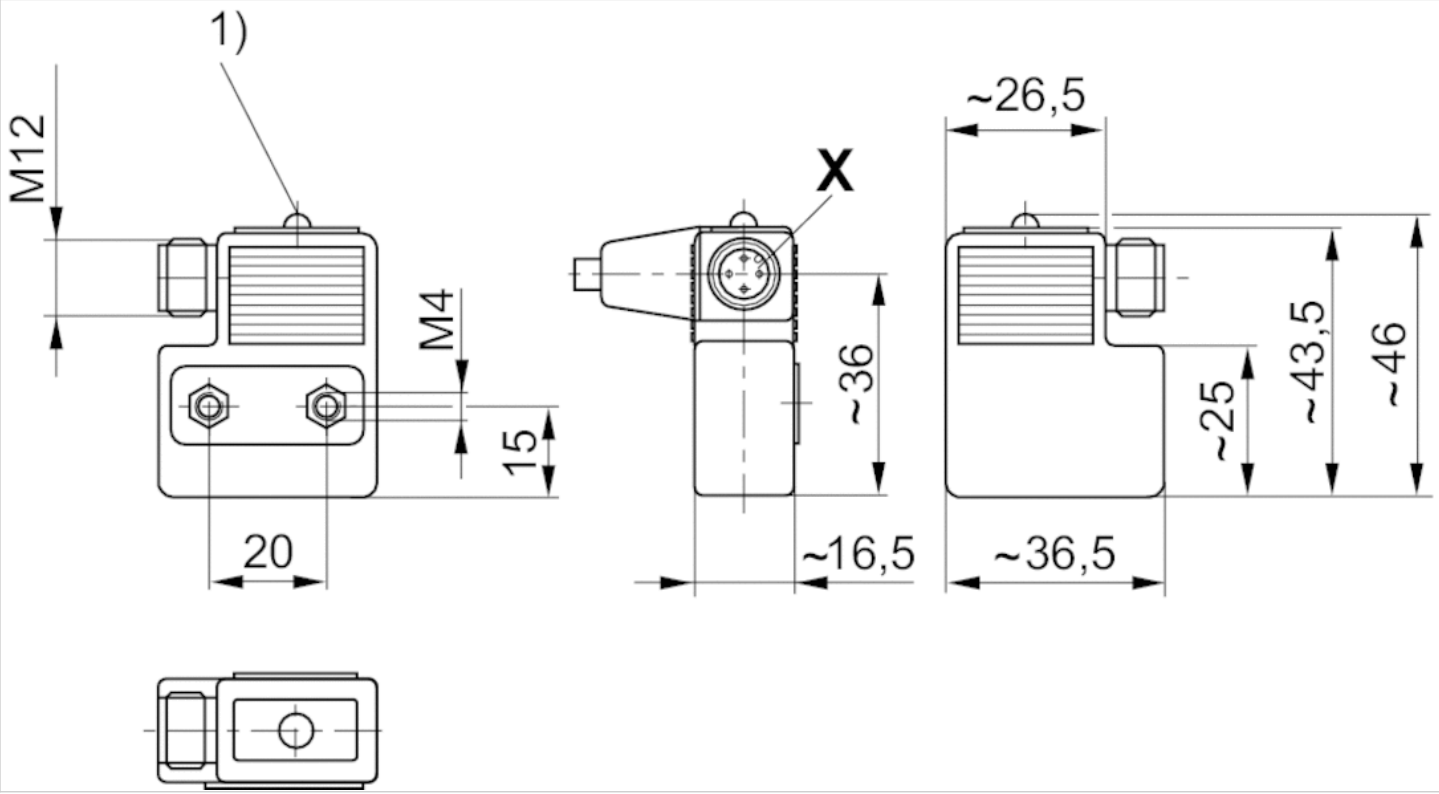
Sensor responds to ferromagnetic material.

Technical information

Material	
Housing	epoxy resin

Dimensions

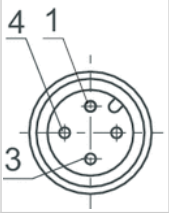
Dimensions



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

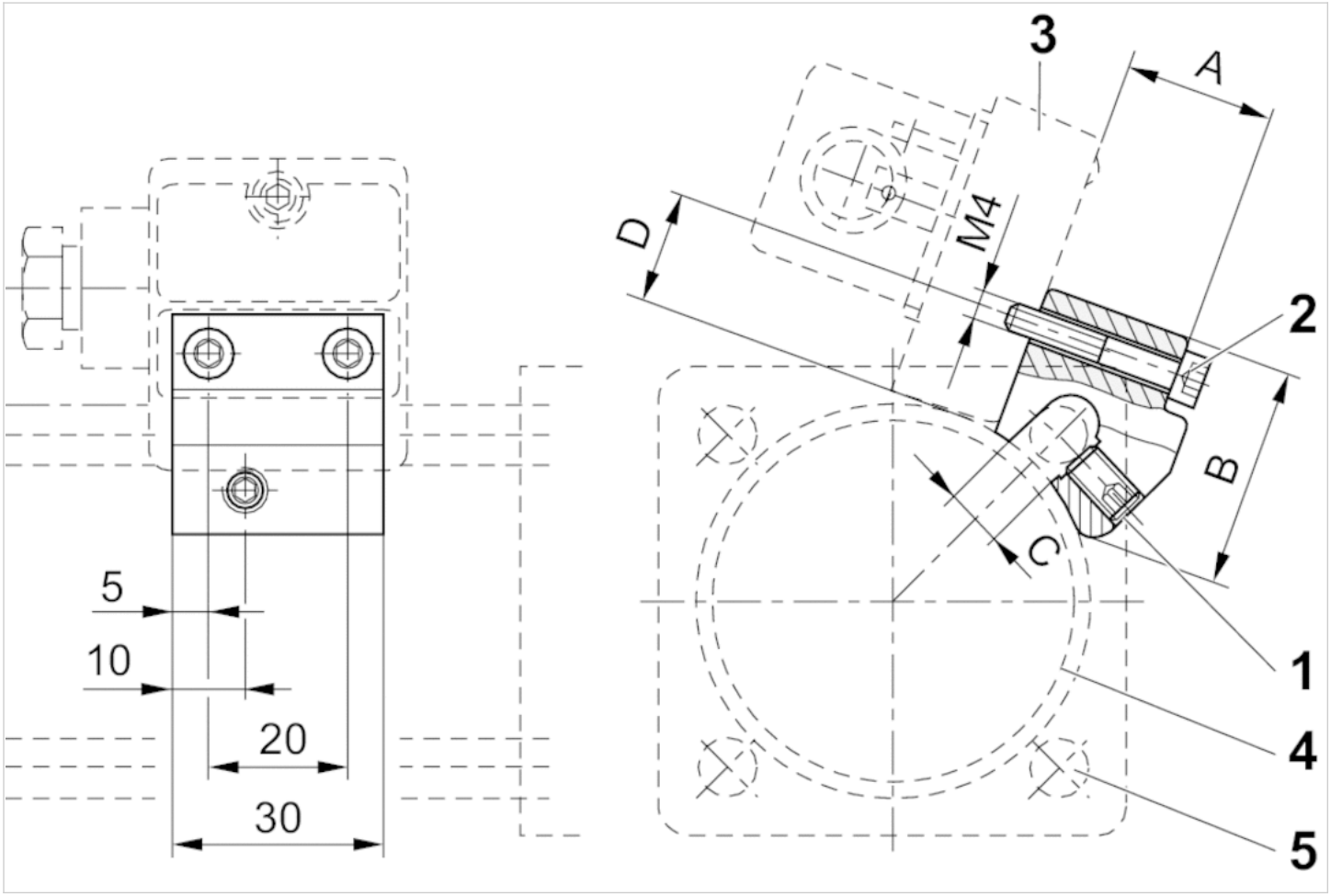
Technical data

Part No.	Cylinders Ø min.	Cylinders Ø max.	for series	Weight
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

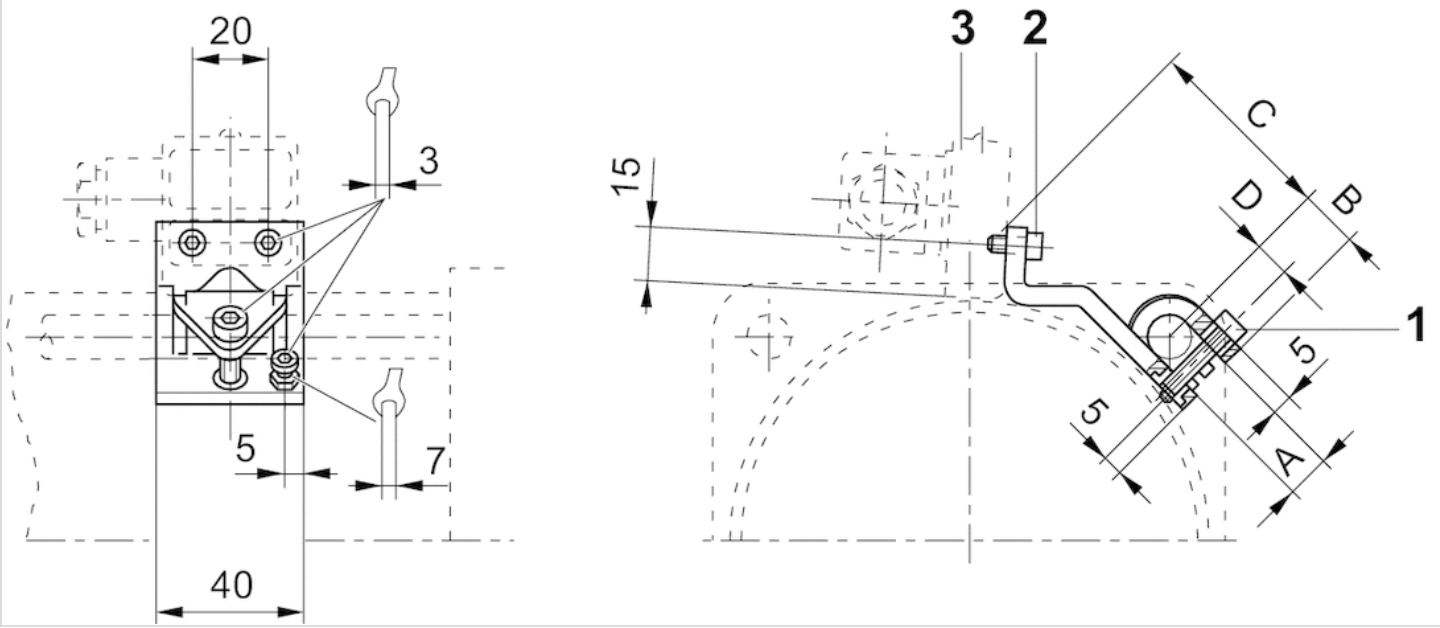
Technical data

Part No.	Cylinders Ø	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



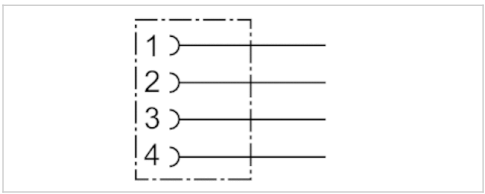
1) Mounting screw 2) Mounting screw for sensor 3) Sensor

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

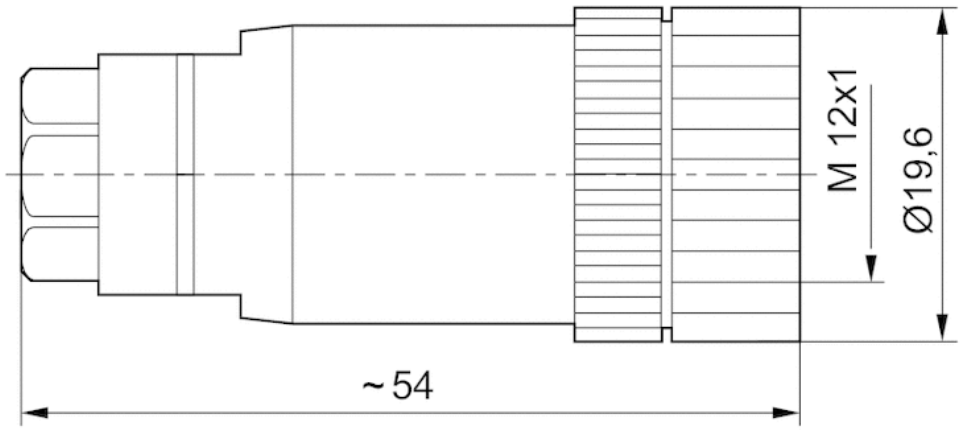
Part No.	Max. current	suitable cable-Ø min./max
1834484177	4 A	4 / 6 mm

Technical information

Material	
Housing	Polyamide

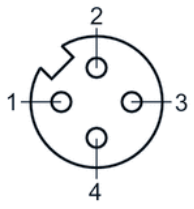
Dimensions

Dimensions



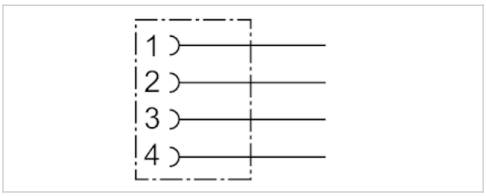
Pin assignments

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

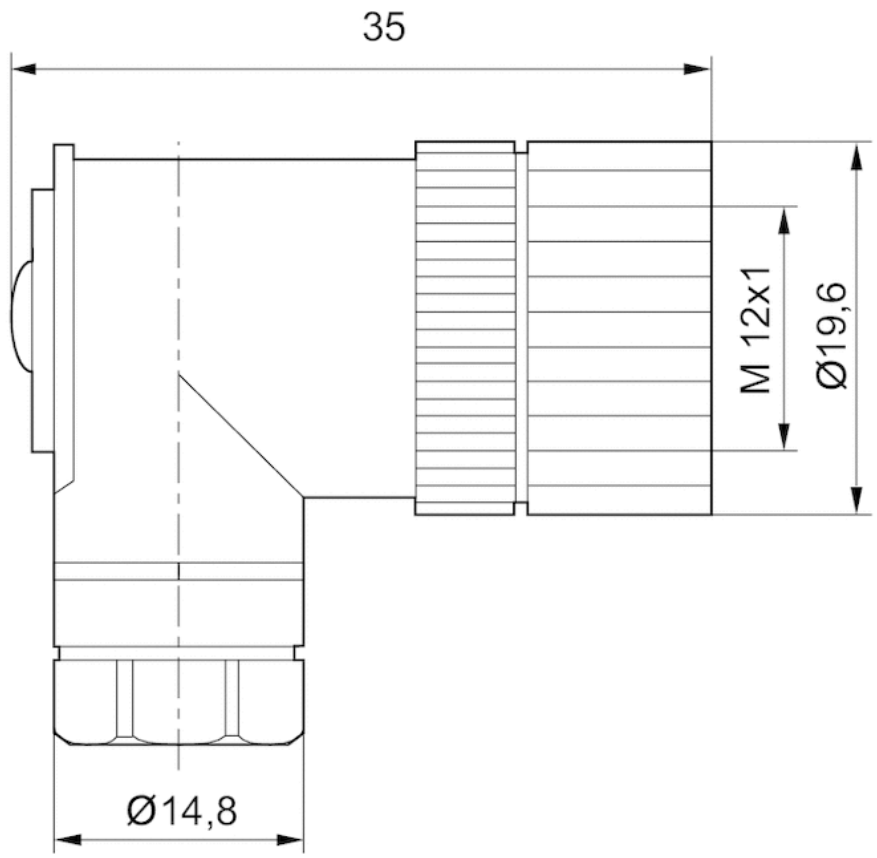
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

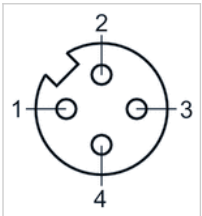
Dimensions

Dimensions



Pin assignments

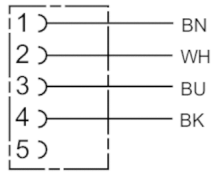
Pin assignment, socket



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 mm²
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

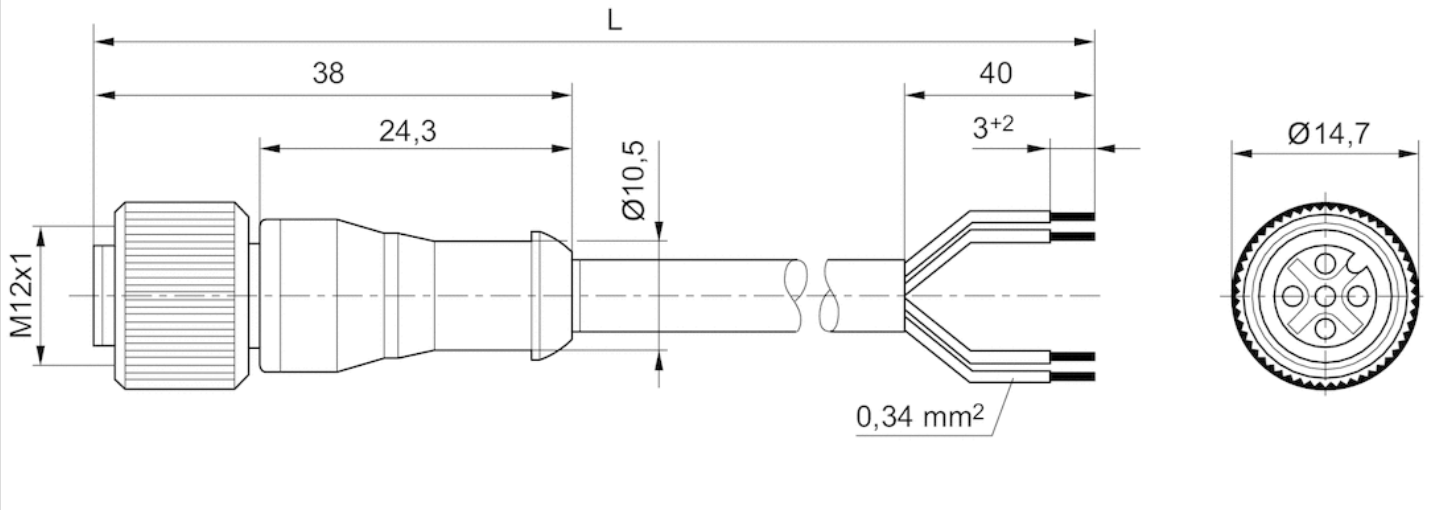
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

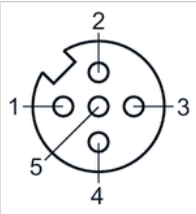
Dimensions



L = length

Pin assignments

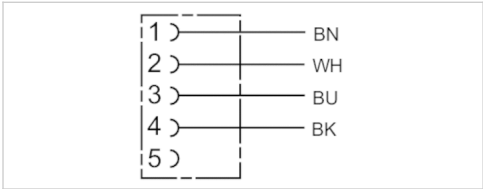
Pin assignment, socket



(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 mm²
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

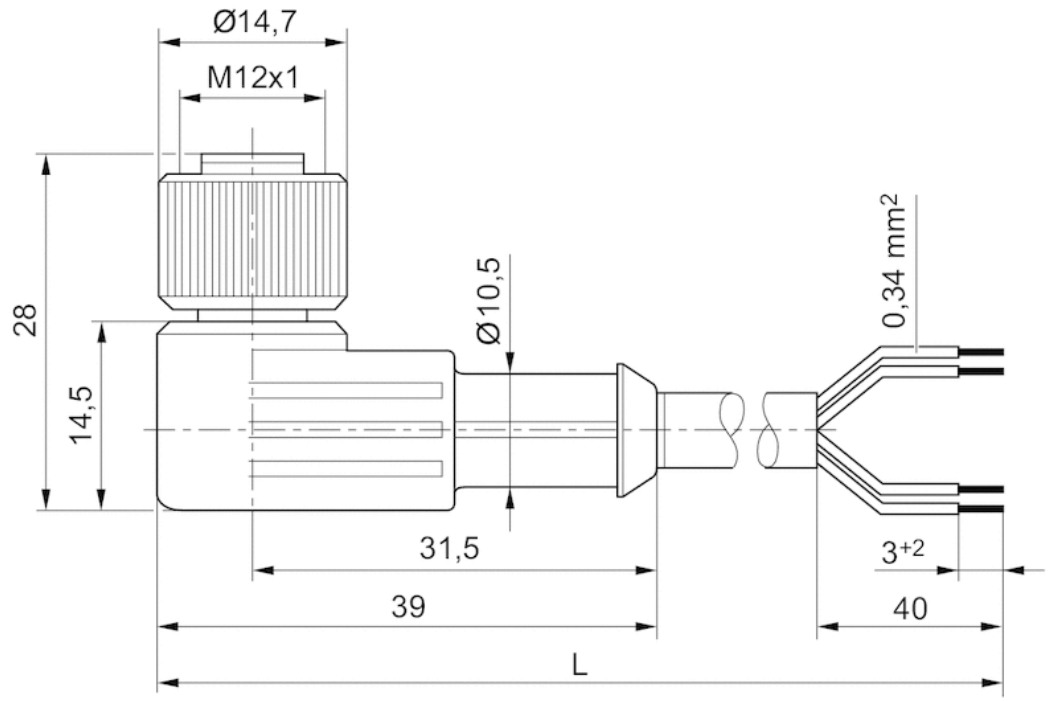
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

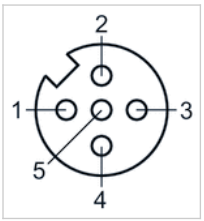
Dimensions



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 mm²
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

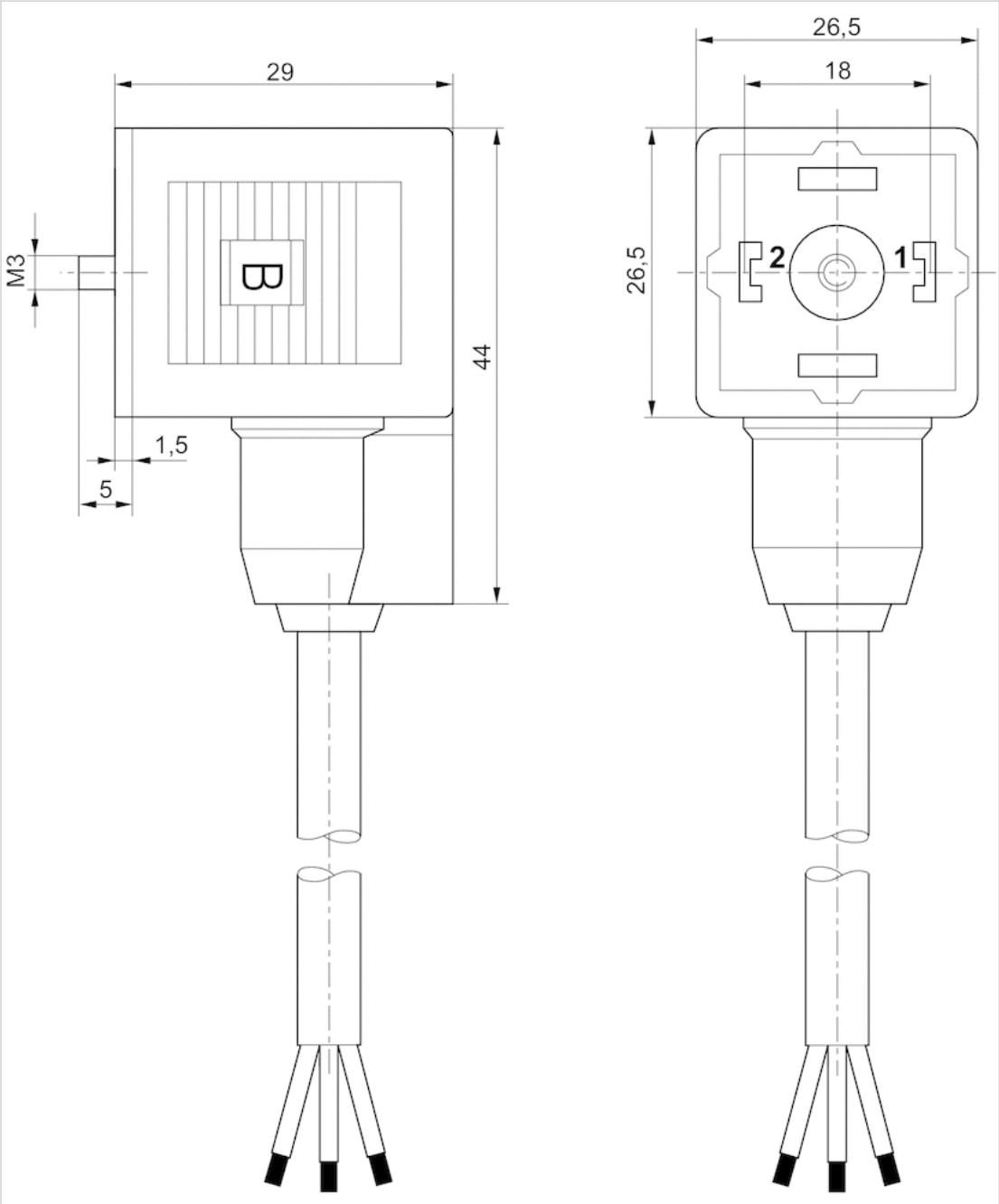
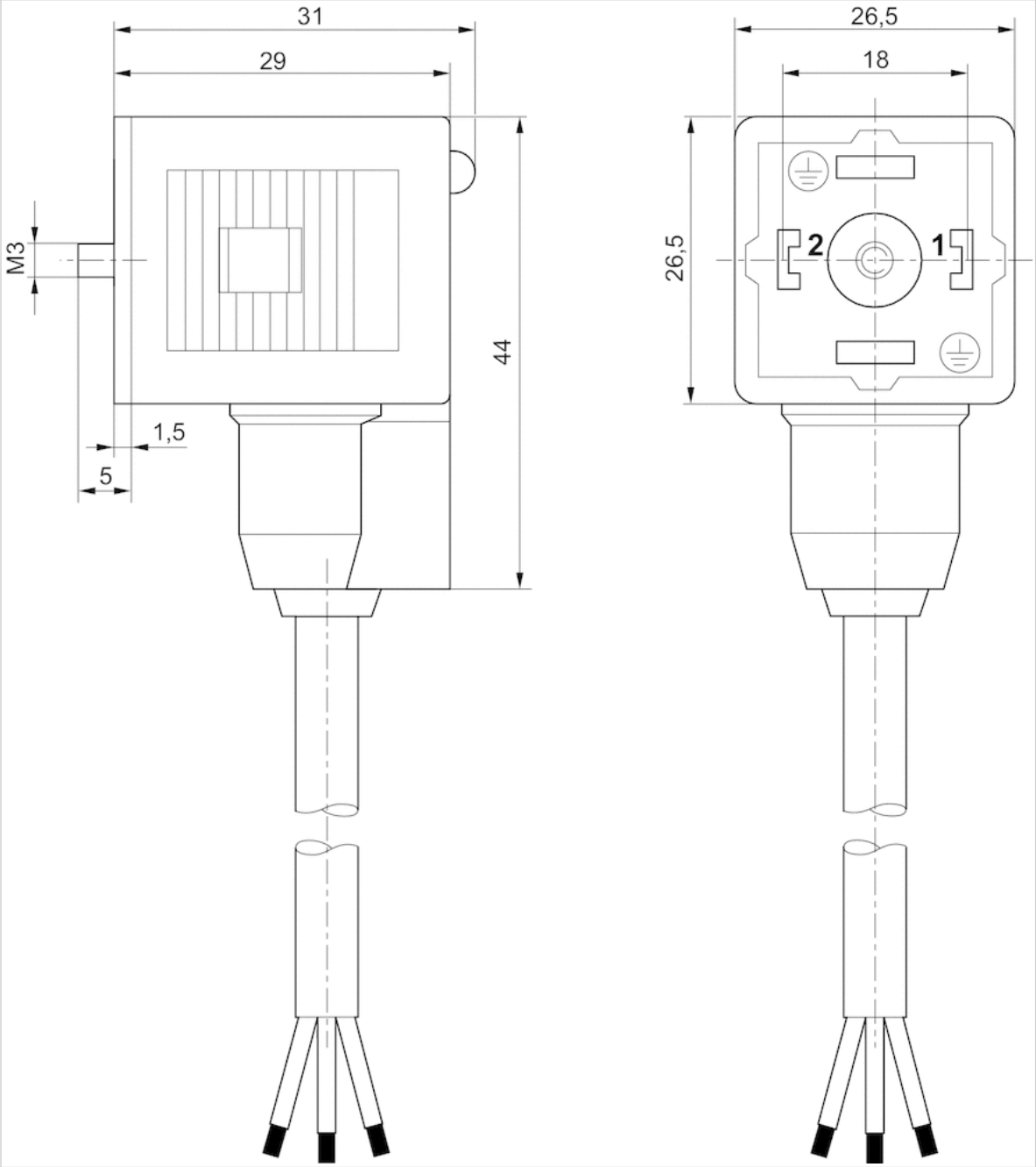


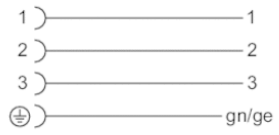
Fig. 2



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

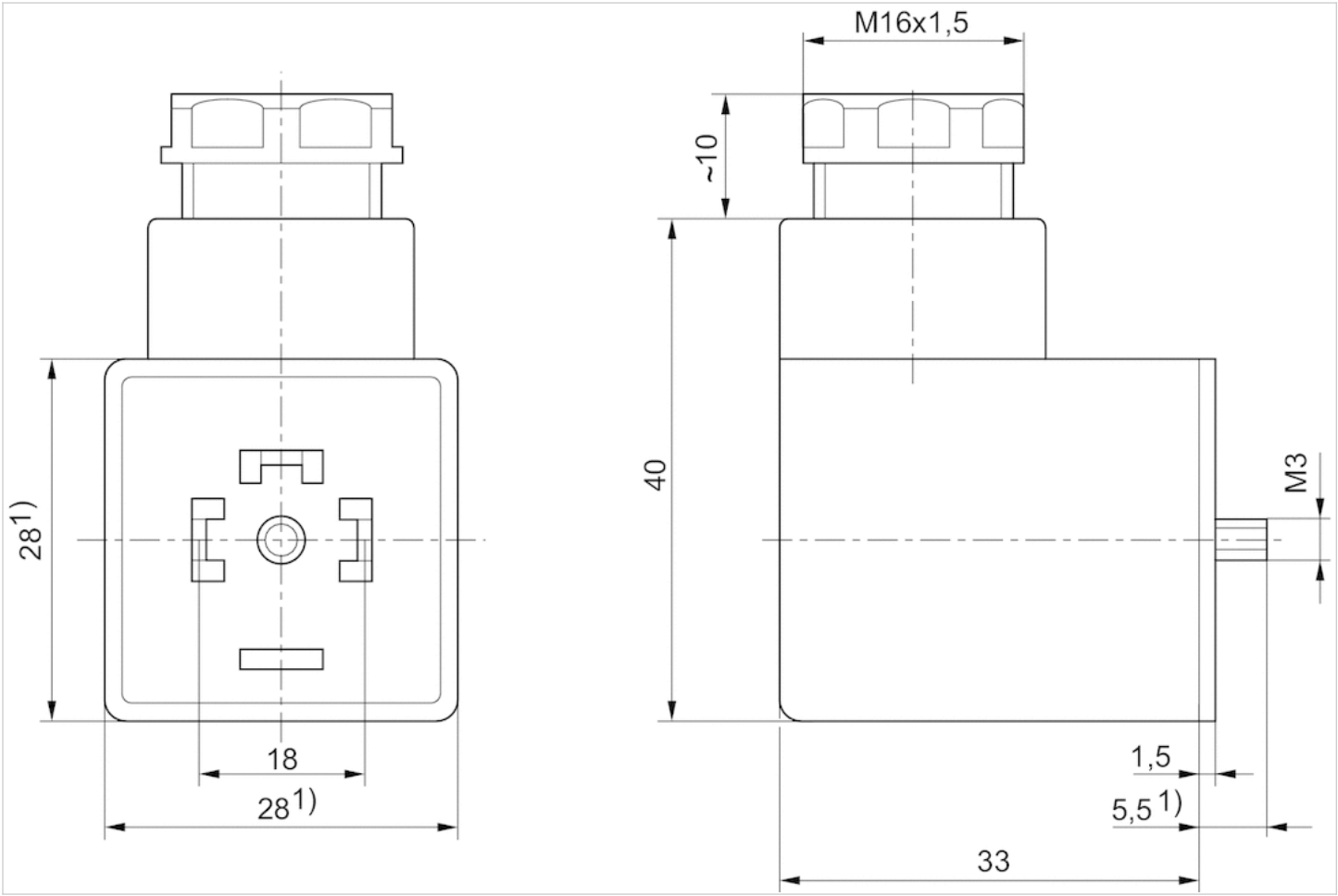
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc

Dimensions

Dimensions



1) Max.

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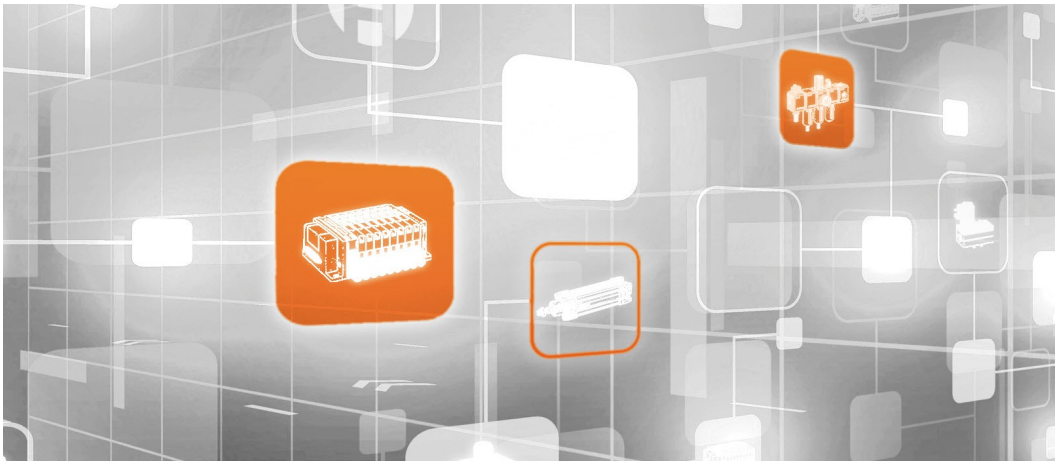

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