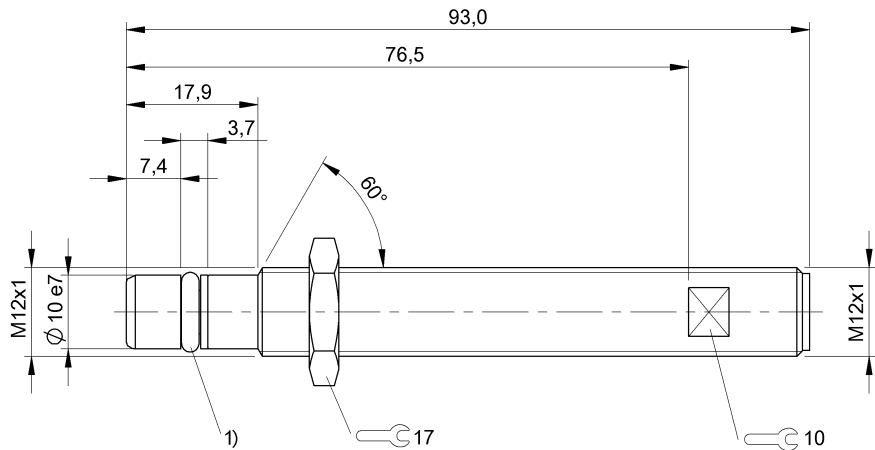




1) O-Ring with thrust ring



Display/Operation

Power indicator no

Electrical connection

Connection M12x1-Male, 4-pin, A-coded
Polarity reversal protected yes
Protection against device mix-ups yes
Short-circuit protection yes

Electrical data

Load capacitance max. at U_e 0.5 µF
Min. operating current I_m 0 mA
No-load current I_o max., damped 10 mA
No-load current I_o max., undamped 1 mA
Operating voltage U_b 10...30 VDC
Output resistance R_a 33.0 kOhm + D
Rated insulation voltage U_i 75 V DC
Rated operating current I_e 200 mA
Rated operating voltage U_e DC 24 V
Rated short circuit current 100 A
Ready delay t_v max. 10 ms
Residual current I_r max. 10 µA
Ripple max. (% of U_e) 15 %
Switching frequency 1000 Hz
Voltage drop static max. 1.5 V

Environmental conditions

Ambient temperature -25...80 °C
Contamination scale 3
IP rating IP68

Functional safety

MTTF (40 °C) 720 a

Interface

Switching output PNP normally open (NO)

Material

Housing material Stainless steel
Material sensing surface EP
Support ring material PTFE

Mechanical data

Dimension Ø 12 x 93 mm
Installation for flush mounting
Mounting length 58.60 mm
Pressure rating max. 500 bar
Sealing ring, size 5.3 x 2.4 mm
Size M12x1

Range/Distance

Assured operating distance Sa	1.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	1.5 mm

Real switching distance sr	1.5 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Connector Drawings



Wiring Diagrams (Schematic)

