

# Inductive sensor

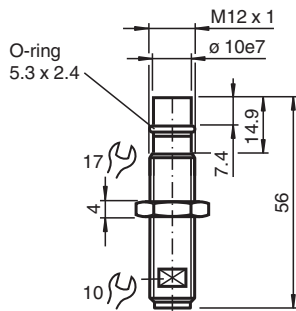
## NCB1,5-12GM45-E2-D-V1



- 1.5 mm flush
- Operating pressure 500 bar, peak pressure 1000 bar
- For applications in hydraulic cylinder



### Dimensions



### Technical Data

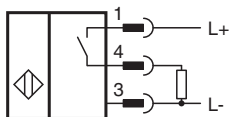
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	1.5 mm
Installation		flush
Output polarity		DC
Output type		3-wire
Nominal ratings		
Operating voltage	$U_B$	10 ... 30 V DC
Switching frequency	$f$	0 ... 600 Hz
Hysteresis	$H$	3 ... 15 % typ. 8 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2$ V
Operating current	$I_L$	0 ... 200 mA
No-load supply current	$I_0$	$\leq 10$ mA
Limit data		

Release date: 2024-10-17 Date of issue: 2024-10-17 Filename: 123392\_eng.pdf

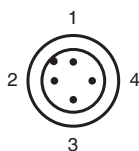
## Technical Data

Operating pressure	500 bar (7252 psi)
Peak pressure	1000 bar (14504 psi)
<b>Functional safety related parameters</b>	
MTTF <sub>d</sub>	728 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %
<b>Compliance with standards and directives</b>	
Standard conformity	
Standards	EN IEC 60947-5-2
<b>Approvals and certificates</b>	
UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
<b>Mechanical specifications</b>	
Connection type	Connector plug
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	Ceramic
Degree of protection	IP68
<b>Connector</b>	
Threading	M12 x 1
Number of pins	4
Mass	29 g
<b>Dimensions</b>	
Length	56 mm
Diameter	12 mm

## Connection



## Connection Assignment

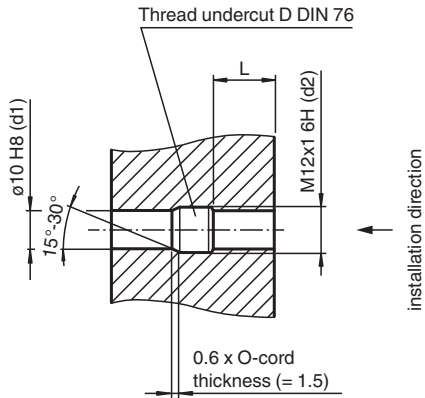


## Connection Assignment

Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

## Installation Conditions



L: recommended installation depth:  $L \geq 0.8 \times d2$