

1) O-Ring with thrust ring



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Connection	M12x1-Male, 3-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Limit frequency -3 dB	1000 Hz
Load resistance RL min.	2000 Ohm
No-load current I _o max. at U _e	10 mA
Operating voltage U _b	15...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating voltage U _e DC	24 V
Ripple max. (% of U _e)	15 %
Slope U	6.70 V/mm

Environmental conditions

Ambient temperature	-25...85 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68

Functional safety

MTTF (40 °C)	150 a
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Interface

Analog output	Analog, voltage 0...10 V
Output characteristic	falling on approach
Output voltage at SI max.	10 V
Output voltage at SI min.	0 V
Output voltage at Se	5 V

Material

Housing material	Stainless steel
Material sensing surface	Ceramic

Mechanical data

Dimension	Ø 12 x 78 mm
Installation	for flush mounting
Mounting length	43.5 mm
Pressure rating max.	500 bar
Pressure rating, note	oil pressure rated
Size	M12x1
Tightening torque	15 Nm ±10 %

Range/Distance

Linearity range SI	0.5...2 mm
Measuring range	0.5...2 mm
Non-linearity max.	±45 µm
Repeat accuracy per BWN	±8 µm
Temperature drift max. from end value	±10.0 %

Remarks

Values referenced to axial approach of St 37 target. For other materials correction factors are applied.

Replacement part number for support ring 150229

Installation Instructions 614804

With connector, e.g. BCC M425-.. total length is = switch length +19 mm.

Seal ring size 6.75 x 1.78

Seal ring material FPM 80

Seal ring replacement part number 149621

Support ring material PTFE

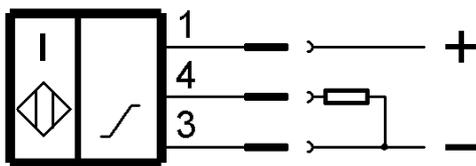
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams (Schematic)



Technical Drawings

