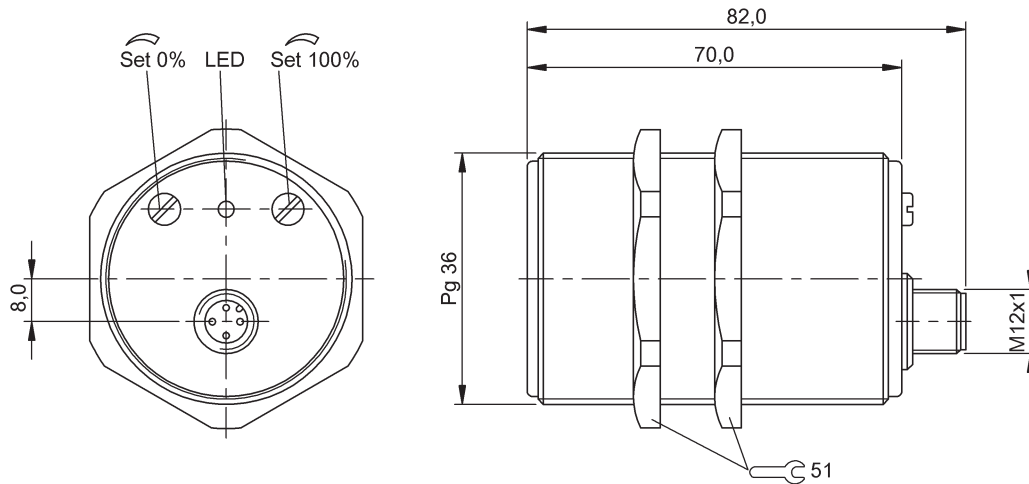


**General attributes**Approvals / Conformity
Basic standardCE
IEC 60947-5-7
BWN PR 44
IEC 60947-5-2
IP67
Yes
No
YesEnclosure Type per IEC 60529
Polarity reversal protected
Power indicator
Short circuit protected**Electrical attributes**

Connection type	Connector
Eff. operating voltage U _e DC	24.00 V
Electrical version	DC, direct current
Limit frequency -3dB	20 Hz
Linearity error max.	±600 µm
Linear range SI max. [mm]	20.00 mm
Linear range SI min. [mm]	0.00 mm
Load resistance R _L min.	10,000 Ohm
No-load current max. I _o at U _e	12.0 mA
Operating voltage U _B max. DC [V]	30.00 V
Operating voltage U _B min. DC [V]	20.00 V
Output voltage at S _e	5.00 V
Output voltage at SI max.	10.00 V
Output voltage at SI min.	0.00 V
Rated frequency, AC	DC
Rated insulation voltage U _i	75 DC
Ripple max. (% of U _e)	15 %

Slope U
Switching function
Switching output0.50 V/mm
Voltage falling on approach
PNP / Analog**Mechanical attributes**

Adjustment indicator	No
Ambient temperature T _a max.	70 °C
Ambient temperature T _a min.	-10 °C
Connector type	M12x1-S04
Depth	70.0 mm
Diameter d1	PG 36
Housing material	Brass
Measuring speed max.	0.1 m/s
Mech. installation condition	Flush (shielded)
Opt. working temperature max.	50 °C
Opt. working temperature min.	10 °C
Rated operating dist. S _e	10.00 mm
Repeat acc. R of end value max	0.3 %
Repeat accuracy per BWN	±5.0 µm
Sensing face material	Plastic
Surface protection	Nickel-plated
Temp. drift max. of span	±5.0 %
Tightening torque	40 Nm

Additional textWith connector, e.g. BKS-S 20-... total length = switch length +18 mm.
Values referenced to axial approach of St 37 target. For other materials correction factors are applied.