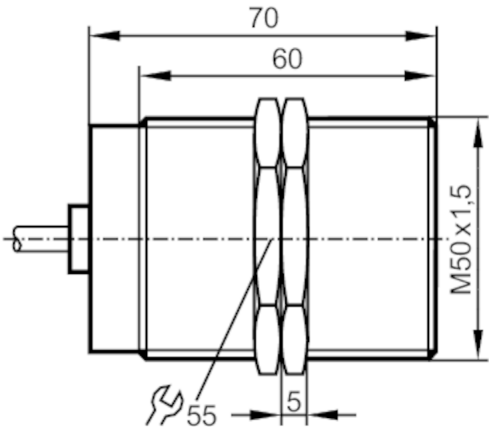




Inductive high-temperature sensor

I9-3020ZBPKG/M50/5M/SH



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	20
Housing		Threaded type
Dimensions	[mm]	M50 x 1.5 / L = 70
Application		
Application		high-temperature applications
Electrical data		
Operating voltage	[V]	10...35 DC
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	150
Switching frequency DC	[Hz]	100
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes
Monitoring range		
Sensing range	[mm]	20
Operating distance	[mm]	0...16.2
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.6 / brass: 0.3 / aluminum: 0.2 / copper: 0.1



Inductive high-temperature sensor

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Hysteresis	[% of Sr]	3...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	0...180
Protection		IP 65

Tests / approvals

EMC	EN 61000-4-2 ESD	2 kV CD / 4 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
MTTF	[years]	700

Mechanical data

Weight	[g]	560.5
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M50 x 1.5 / L = 70
Thread designation		M50 x 1.5
Material		housing: stainless steel; sensing face: LCP

Accessories

Items supplied	lock nuts: 2
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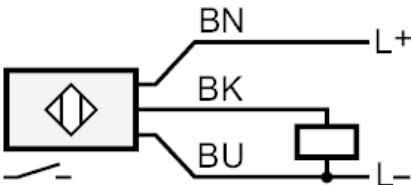
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 5 m, silicone; highly flexible; 3 x 0.22 mm²

Connection



Core colors :  
BK = black  
BN = brown  
BU = blue