

IN5228



Inductive sensor

IN-2004-FRKG/6M/PH



- 1 mounting hole
2 threaded bush M3 Depth 5.8 mm



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Sensing range [mm]	4
Housing	rectangular
Dimensions [mm]	40 x 12 x 26

Electrical data

Operating voltage [V]	10...55 DC
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	0.5
Permanent current rating of switching output DC [mA]	300
Switching frequency DC [Hz]	1200
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	4
Real sensing range Sr [mm]	4 ± 10 %
Operating distance [mm]	0...3.25

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Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminum: 0.4 / copper: 0.3	
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-10...10

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1645

Mechanical data

Weight	[g]	263
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	40 x 12 x 26
Material		PBT

Mounting hole

Tightening torque	[Nm]	< 0.5
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Threaded bush

Tightening torque	[Nm]	< 1.2; (when brass insert in contact with counterpart)
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Displays / operating elements

Display	Switching status	1 x LED, yellow
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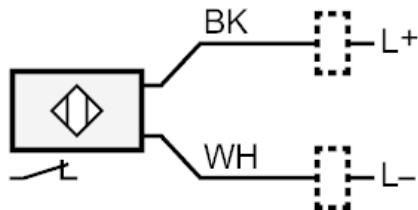
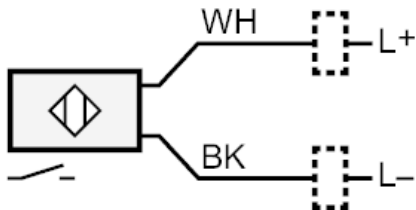
Remarks

Pack quantity		1 pcs.
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Electrical connection

Cable: 6 m, PUR; 2 x 0.5 mm²

Connection



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