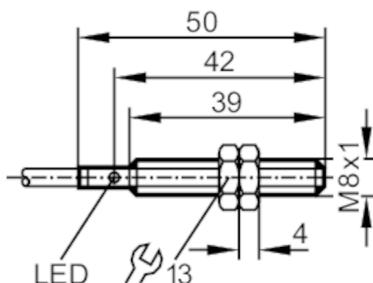


# IE5202



## Inductive sensor

IE-2002-FRKG/PH



### Product characteristics

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 50

### Electrical data

Operating voltage [V]	5...36 DC
Protection class	III
Reverse polarity protection	no

### Outputs

Electrical design	PNP/NPN
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	4.6
Minimum load current [mA]	4
Max. leakage current [mA]	0.8
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	2000
Short-circuit protection	yes
Overload protection	yes

### Detection zone

Sensing range [mm]	2
Real sensing range $S_r$ [mm]	$2 \pm 10\%$
Operating distance [mm]	0...1.6

### Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.4 / aluminium: 0.3 / copper: 0.2
Hysteresis [% of $S_r$ ]	1...15
Switch point drift [% of $S_r$ ]	-10...10

### Operating conditions

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

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### Tests / approvals

EMC	EN 61000-4-2 ESD	8 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
	EN 55011	class B
MTTF	[years]	3377

### Mechanical data

Weight	[g]	40.1
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 50
Thread designation		M8 x 1
Materials		PBT; TPE-E
Tightening torque	[Nm]	0.25

### Displays / operating elements

Display	switching status	1 x LED, yellow
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### Accessories

Accessories (supplied)	lock nuts: 2 rubber washers: 2
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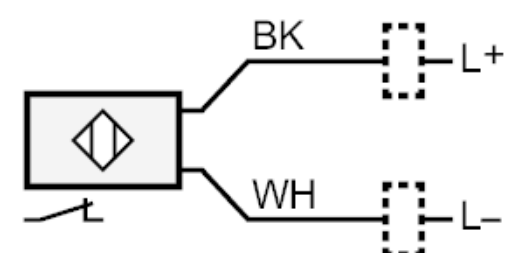
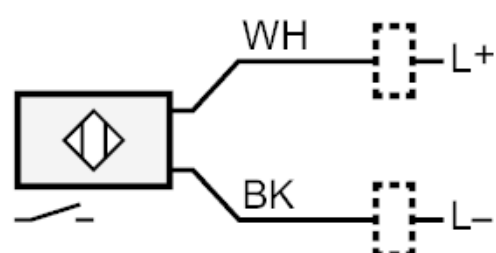
### Remarks

Pack quantity	1 pcs.
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### Electrical connection

Cable: 2 m, PUR / PVC; 2 x 0.14 mm<sup>2</sup>

### Connection



Core colours :  
 BK = black  
 WH = white