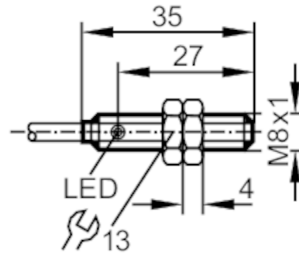


IE5414



Inductive sensor

IEC3002-BNKG/0,215M/MOLEX



Product characteristics

Electrical design	NPN
Output function	normally closed
Sensing range [mm]	2
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 35

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	15; (24 V)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	NPN
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	800
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

IE5414



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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 emission	class B
MTTF	[years]	5541

Mechanical data

Weight	[g]	13.2
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M8 x 1 / L = 35
Thread designation		M8 x 1
Materials		housing: PBT TPE-E; lock nuts: plastics
Tightening torque	[Nm]	0.25

Displays / operating elements

Display	switching status	4 x LED, yellow
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Accessories

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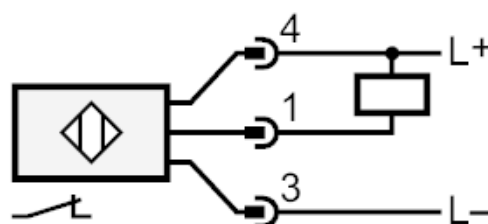
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 0.215 m, PVC; 3 x 0.34 mm²

Connection



Core colours :

- BN = brown
- BU = blue
- BK = black

Connector: 1 x MOLEX

IE5414

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