

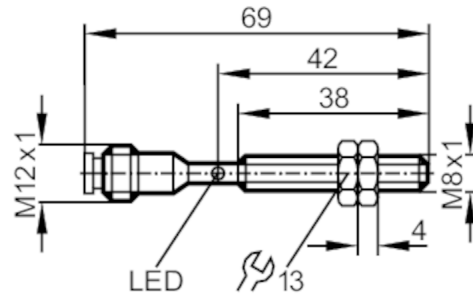
# IE9940



## Inductive sensor

IEA2001-AROG/UP/US-100 RT

phase-out article



### Product characteristics

Electrical design		PNP/NPN
Output function		normally open
Sensing range	[mm]	1
Housing		threaded type
Dimensions	[mm]	M8 x 1 / L = 69

### Electrical data

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

### Outputs

Electrical design		PNP/NPN
Output function		normally open
Max. voltage drop switching output DC	[V]	4.6
Minimum load current	[mA]	4
Max. leakage current	[mA]	0.6
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	2000
Short-circuit protection		no
Overload protection		no

### Detection zone

Sensing range	[mm]	1
Real sensing range Sr	[mm]	1 ± 10 %
Operating distance	[mm]	0...0.8

### Accuracy / deviations

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

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### Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 65

### Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	3367

### Mechanical data

Weight	[g]	25.1
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M8 x 1 / L = 69
Thread designation		M8 x 1
Materials		brass nickel-plated; PBT

### Displays / operating elements

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

Items supplied		lock nuts: 2
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### Remarks

Pack quantity		1 pcs.
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### Electrical connection - plug

Connector: 1 x M12; coding: A



### Connection

