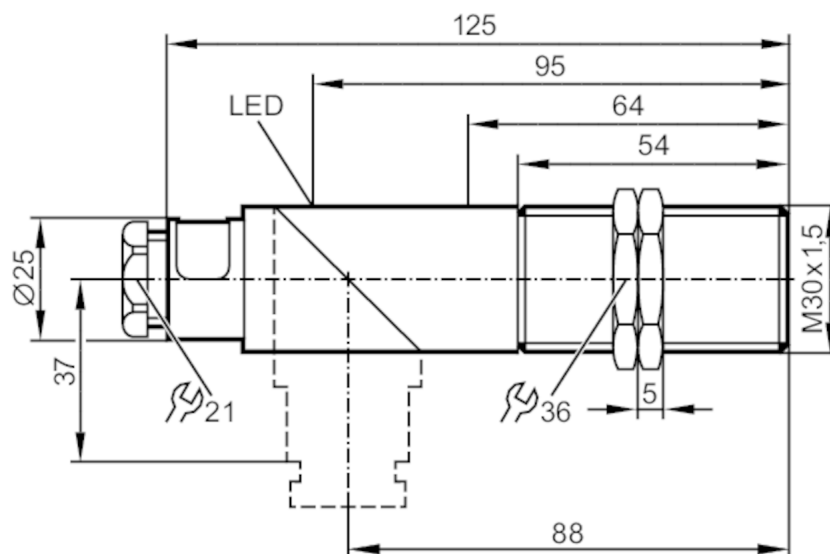




Inductive sensor

IIE2010-FRKG



Product characteristics

Electrical design	PNP/NPN
Output function	normally open / closed; (selectable)
Sensing range [mm]	10
Housing	Threaded type
Dimensions [mm]	M30 x 1.5

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]	1
Permanent current rating of switching output DC [mA]	400
Switching frequency DC [Hz]	450
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Sensing range [mm]	10
Real sensing range Sr [mm]	10 ± 10 %



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Operating distance	[mm]	0...8.1
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Accuracy / deviations

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

Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	1699

Mechanical data

Weight	[g]	114.5
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5
Thread designation		M30 x 1.5
Material		PBT; end cap: PC

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

terminals: ...2.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection

