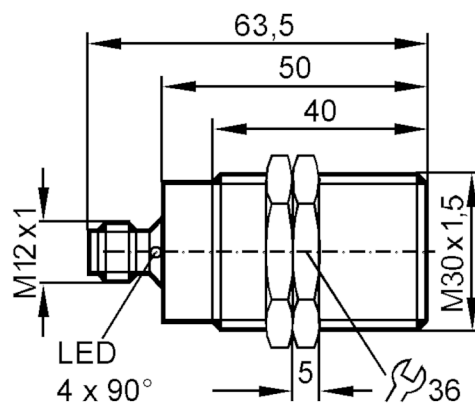




Inductive sensor

IIK3020BBPKG/K1/US-100-DPS

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Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	20
Housing	Threaded type
Dimensions [mm]	M30 x 1.5

Application

System	Increased sensing range
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Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	12; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open
Max. voltage drop switching output DC [V]	2
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	100
Short-circuit protection	yes



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Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range	
Sensing range [mm]	20
Real sensing range S_r [mm]	$20 \pm 10 \%$
Operating distance [mm]	0...16.2
Increased sensing range	yes

Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 1 / brass: 1.3 / aluminum: 1 / copper: 0.8
Hysteresis [% of S_r]	1...15

Operating conditions	
Ambient temperature [°C]	-25...70
Protection	IP 67

Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data	
Housing	Threaded type
Mounting	flush mountable
Dimensions [mm]	M30 x 1.5
Thread designation	M30 x 1.5
Material	stainless steel (1.4305 / 303)

Displays / operating elements		
Display	Switching status	4 x LED, yellow

Accessories	
Items supplied	lock nuts: 2

Remarks	
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A



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Connection

