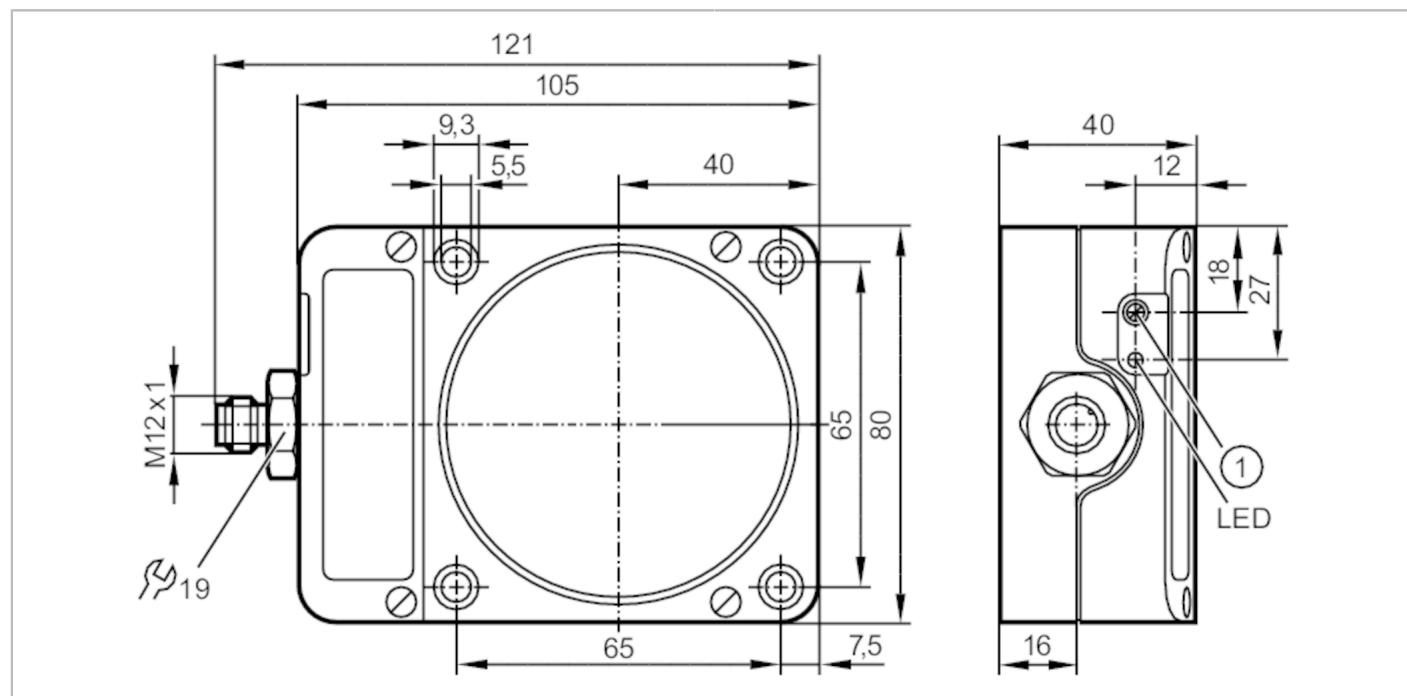


Inductive sensor

IDE3060-FPKG/US-100-DPS



Product characteristics

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	20...60
Housing	rectangular
Dimensions [mm]	105 x 80 x 40

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 15
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes



Inductive sensor

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Detection zone		
Sensing range	[mm]	20...60
Sensing range adjustable		yes
Factory setting sensing range	[mm]	60
Real sensing range Sr	[mm]	60 ± 10 %
Operating distance	[mm]	0...48.6
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
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 61000-4-2 ESD	- CD / 8 kV AD
	EN 61000-4-3 HF radiated	3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-5 Surge	0,5 kV line to line, Ri: 2 Ohm
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
MTTF	[years]	1277
UL approval	Ta	0...40 °C
	Enclosure type	Type 1
	voltage supply	Hazardous voltage
	File number UL	E174191
Mechanical data		
Weight	[g]	440.5
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	105 x 80 x 40
Materials		PPE
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Items supplied		screwdriver: 1
Remarks		
Remarks		For the normally closed function, connect pin 3 (blue) to terminal 5 in the unit
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; coding: A		

ID5046

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IDE3060-FPKG/US-100-DPS



Connection

