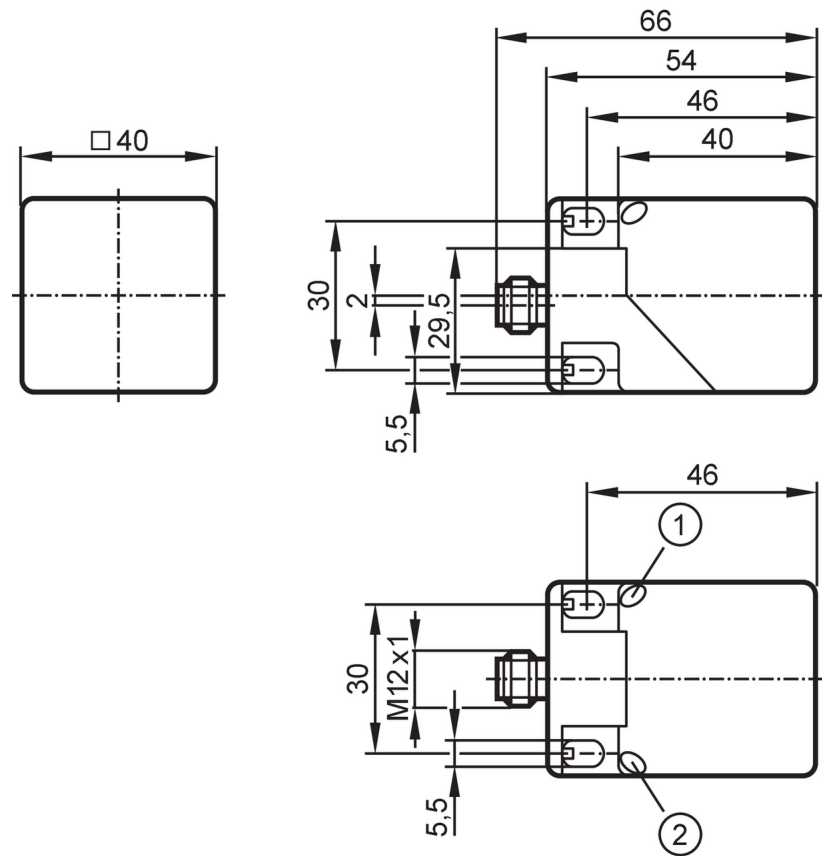


IM5125



Inductive sensor

IMC4035UCPKG/K1/SC/US-100-DPA



- 1 LED yellow
- 2 LED green



Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	35
Housing		rectangular
Dimensions	[mm]	40 x 40 x 54
Application		
Special feature		correction factor = 1; Magnetic-field immune
Application		Inductive sensors for welding applications
Magnetic-field immune		yes
Max. electromagnetic field immunity	[mT]	300
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 20
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP



Inductive sensor

IMC4035UCPKG/K1/SC/US-100-DPA

Output function	complementary
Max. voltage drop switching output DC [V]	2.5
Max. leakage current [mA]	0.1
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	200
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range	
Sensing range [mm]	35
Real sensing range Sr [mm]	35 ± 10 %
Operating distance [mm]	0...28.3

Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1
Hysteresis [% of Sr]	1...20
Switch-point drift [% of Sr]	-10...10
Correction factor = 1	yes

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

Tests / approvals		
EMC	EN 61000-4-2 ESD	8 kV CD / 6 kV AD
	EN 61000-4-3 HF radiated	10 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	10 V
	EN 55011	class B
MTTF [years]	972	
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data	
Weight [g]	134
Housing	rectangular
Sensing face	5 positions selectable
Mounting	non-flush mountable
Dimensions [mm]	40 x 40 x 54
Material	housing: PA weld coated; sensing face: PA black weld coated; bevelled housing part: PA; clamp: orange; screw: stainless steel (1.4567 / 304Cu)

Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4; Locking: locking, rotatable, stainless steel (1.4404 / 316L)



Connection

