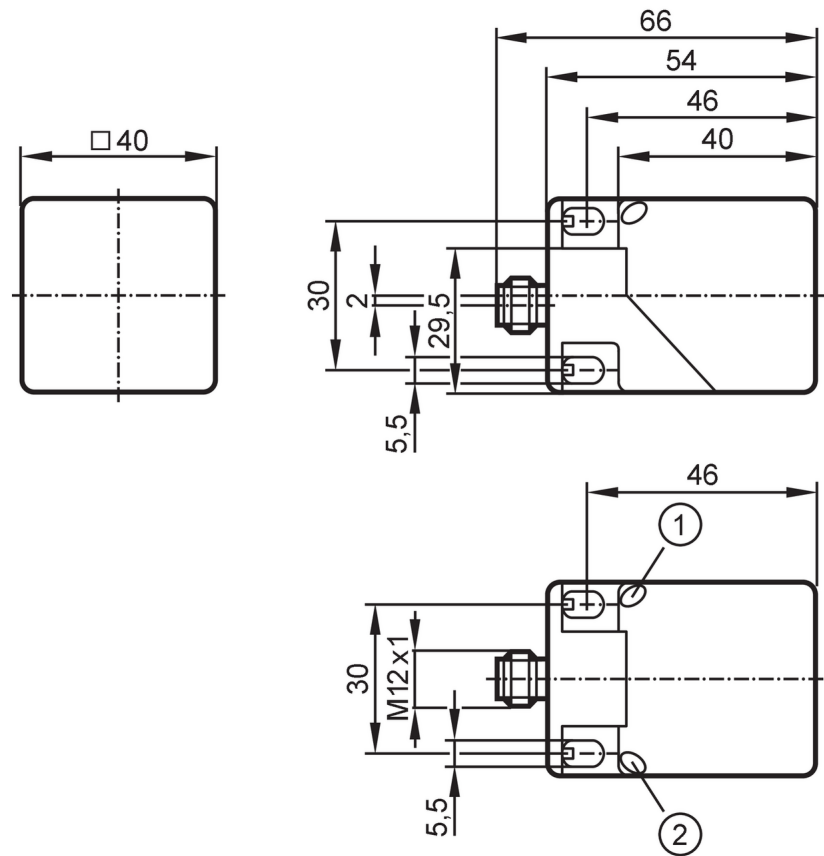


IM5129



Inductive sensor

IMC3040UBPKG/K1/SC/US-100-DPS



- 1 LED yellow
- 2 LED green



Product characteristics		
Electrical design		PNP
Output function		normally open
Sensing range	[mm]	40
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

IM5129



Inductive sensor

IMC3040UBPKG/K1/SC/US-100-DPS

Output function	normally open	
Max. voltage drop switching output DC [V]	2.5	
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]	40	
Real sensing range S_r [mm]	$40 \pm 10 \%$	
Operating distance [mm]	0...32.4	

Accuracy / deviations		
Correction factor	steel: 1 / stainless steel: 1 / brass: 1 / aluminum: 1 / copper: 1	
Hysteresis [% of S_r]	1...20	
Switch-point drift [% of S_r]	-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, R_i : 2 Ohm
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
MTTF [years]	1161	
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	File number UL	E174191

Mechanical data		
Weight [g]	133.5	
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

IM5129



Inductive sensor

IMC3040UBPKG/K1/SC/US-100-DPS

Remarks

Pack quantity	1 pcs.
---------------	--------

Electrical connection - plug

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



Connection

