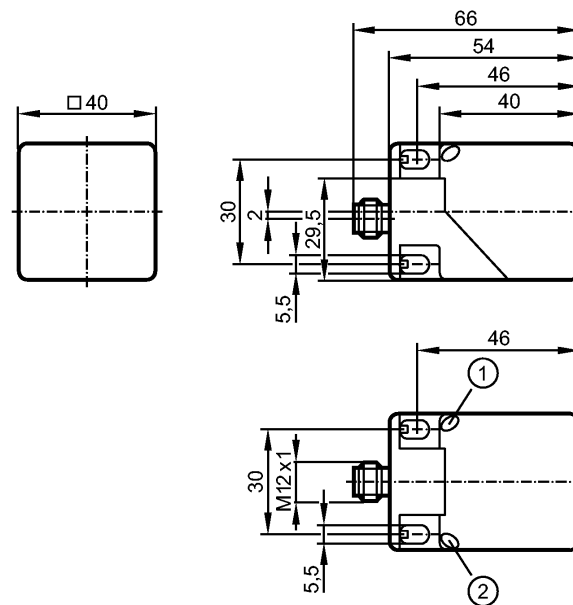


IM5120

IMC3035UBPKG/K1/SC/US-100-DPS

Inductive sensors



1: LED yellow
2: LED green



Product characteristics

Inductive sensor
Rectangular, plastics
Quick disconnect
Weld field immune
Correction factor = 1
5 positions of the sensing face selectable
Sensing range 35 mm; [nf] non-flush mountable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC; cULus - Class 2 source required
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes

Outputs

Output function	normally open
Voltage drop [V]	< 2.5
Current rating [mA]	200
Short-circuit protection	yes (non-latching)
Overload protection	yes
Switching frequency [Hz]	200

Monitoring range

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

Accuracy / deviations

IM5120

IMC3035UBPKG/K1/SC/US-100-DPS

Inductive sensors

Correction factors		mild steel = 1 / stainless steel approx. 1 / brass approx. 1 / aluminium approx. 1 / copper approx. 1
Hysteresis	[% of Sr]	1...20
Switch-point drift	[% of Sr]	-10...10

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

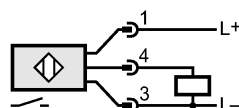
Tests / approvals		
EMC	EN 61000-4-2 ESD:	8 kV CD / 6 kV AD
	EN 61000-4-3 HF radiated:	10 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-5 Surge:	0.5 kV (line to line, Ri: 20hm)
	EN 61000-4-6 HF conducted:	10 V
	EN 55011:	class B
MTTF	[Years]	1161

Mechanical data		
Mounting		non-flush mountable
Housing materials		housing: PA (polyamide) safe-coated; connector: stainless steel
Weight	[kg]	0.132

Displays / operating elements		
Output status indication	LED	yellow
Power	LED	green

Electrical connection		
Connection		M12 connector; rotatable, locking

Wiring



Remarks		
Pack quantity	[piece]	1