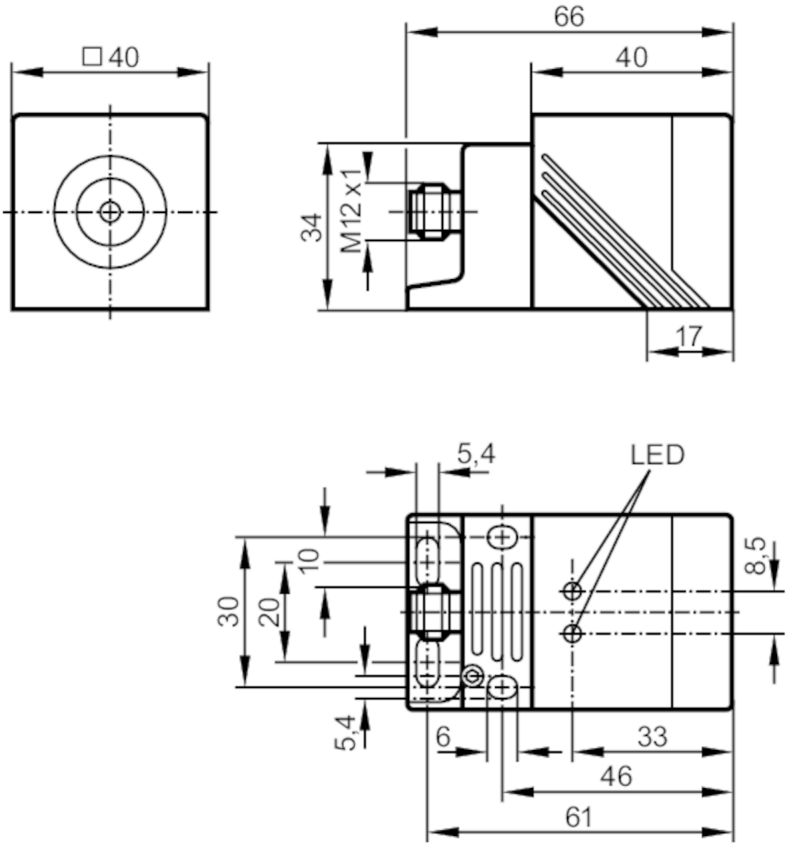
IM5098

Inductive sensor

IMC4035UCPKG/K1/SC/US-100-DPA

phase-out article

Alternative articles: IM5124 or IM5126
When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics		
Electrical design		PNP
Output function		complementary
Sensing range	[mm]	35
Housing		rectangular
Dimensions	[mm]	40 x 40 x 66
Application		
Special feature		Gold-plated contacts; Correction factor K = 1; Magnetic-field immune; anti-spatter
Magnetic-field immune		yes
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	20; (24 V)
Protection class		II
Reverse polarity protection		yes

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Outputs			
Electrical design		PNP	
Output function		complementary	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	250	
Switching frequency DC	[Hz]	250	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
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 / aluminium: 1 / copper: 1	
Hysteresis	[% of Sr]	1...15	
Switch point drift	[% of Sr]	-10...10	
Correction factor K = 1		yes	
Operating conditions			
Ambient temperature	[°C]	-25...70	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	943	
UL approval		Ta	0...40 °C
		Enclosure type	Type 1
		power supply	Hazardous voltage
		File number UL	E174191
Mechanical data			
Weight	[g]	142	
Housing		rectangular	
Mounting		non-flush mountable	
Dimensions	[mm]	40 x 40 x 66	
Materials		housing: PPE; sensing face: PPE black anti-spatter; end cap: PPS; clamp: PPS black; screw: steel galvanised	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green
Accessories			
Items supplied		Mounting bracket: 1	
		Allen key: 1	

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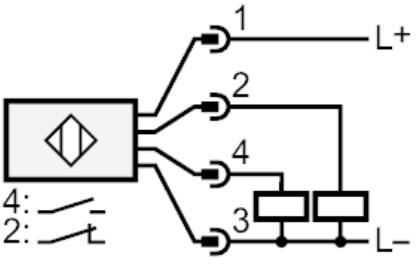
Remarks	
Remarks	5 positions of the active zone possible
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Locking: brass, white bronze coated; Contacts: gold-plated

Connection