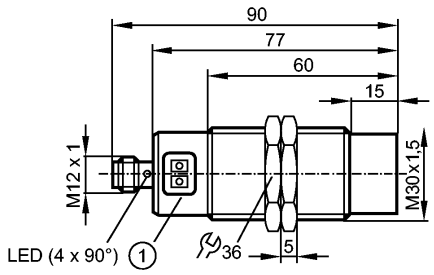
efector150

KI5087

KIA3150NFPKG/2T/US

Capacitive sensors



1: Programming buttons

Made in Germany

Product characteristics		
Capacitive sensor		
Metal thread M30 x 1.5		
Connector		
Teach function		
Electronic lock		
Sensing range 15 mm; [nf] non-flush mountable		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	10...36 DC (60 °C) / 10...30 DC (80 °C)
Current consumption	[mA]	< 20
Protection class		III
Reverse polarity protection		yes
Outputs		
Output function		normally open / closed programmable
Voltage drop	[V]	< 2.5
Current rating	[mA]	100
Short-circuit protection		pulsed
Overload protection		yes
Switching frequency	[Hz]	10
Range		
Sensing range	[mm]	15
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15
Switch-point drift	[% of Sr]	-20...20
Interfaces		
IO-Link Device		
Transfer type		COM1 (4.8 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
IO-Link Device ID		388d / 000184h
Profiles		Smart Sensor
SIO mode		yes
Min. process cycle time	[ms]	101
Environment		

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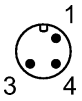
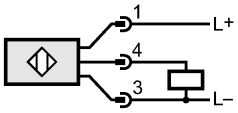
Ambient temperature [°C]	-25...80	
Protection	IP 65 / IP 67	
Tests / approvals		
EMC	EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-6 HF conducted: EN 55011:	8 kV AD 10 V/m (80...2000 MHz) 2 kV 3 V (0.15...80 MHz) class B
Vibration resistance	EN 60068-2-6 Fc	(10...55 Hz) / 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
Shock resistance	EN 60068-2-27 Ea	30 g 6 shocks / 11 ms half-sine (x,y,z)
MTTF [Years]	719	
Mechanical data		
Mounting	non-flush mountable	
Housing materials	housing: stainless steel 316L / 1.4404; buttons: TPE-U; cover: PBT; connector: PEI	
Weight [kg]	0.122	
Displays / operating elements		
Output status indication LED	yellow	
Electrical connection		
Connection	M12 connector	

Wiring





4: OUT / IO-Link

Accessories		
Accessories (included)	2 lock nuts	
Remarks		
Pack quantity [piece]	1	