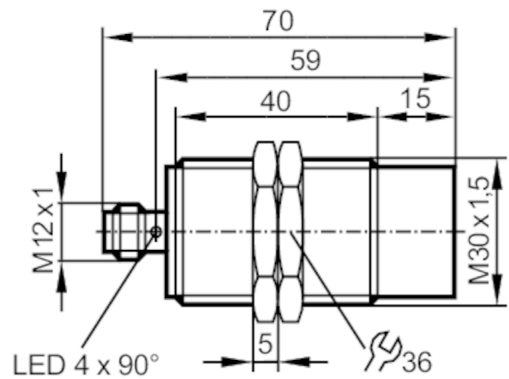


IIM215



Inductive sensor

IIC022-BSKG/V4A/US-104



Product characteristics	
Electrical design	PNP
Output function	normally closed
Sensing range [mm]	22
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 70
Application	
System	gold-plated contacts; Increased sensing range
Application	Use in mobile and harsh applications
Electrical data	
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 10
Protection class	II
Reverse polarity protection	yes
Outputs	
Electrical design	PNP
Output function	normally closed
Max. voltage drop switching output DC [V]	2.5
Minimum load current [mA]	2; (only in 2-wire operation)
Max. leakage current [mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes
Monitoring range	
Sensing range [mm]	22
Real sensing range Sr [mm]	22 ± 10 %



Inductive sensor

IIKC022-BSKG/V4A/US-104

Operating distance	[mm]	0...17.82
Increased sensing range		yes
Accuracy / deviations		
Correction factor		steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminum: 0.4 / copper: 0.3
Hysteresis	[% of Sr]	1...20
Switch-point drift	[% of Sr]	-10...10
Operating conditions		
Ambient temperature	[°C]	-40...85
Protection		IP 67; IP 69K
Tests / approvals		
EMC	Automotive area	
	Noise emission and noise interference: ECE R10	E1 type approval
	noise immunity according to DIN ISO 11452-2	100 V/m
	conducted interference in 24 V networks to ISO 7637-2: 2004 (pulse 1 to 4) and ISO16750-2: 2012 (load dump)	
	pulse	1 2a 2b 3a 3b 4 Load dump
	Severity level	III III III III III Test A
	Failure criterion	C A C A A C C
	EN 61000-4-2 ESD	4 kV CD / 8 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 mains line to line
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
	EN 60068-2-6 Fc	20 g (10...3000 Hz) / -20...50 °C
Vibration resistance		50 sweep cycles per frequency; 1 octave per minute in 3 axes
Shock resistance	EN 60068-2-27 Ea	100 g 11 ms half-sine; 3 shocks each in every direction of the 3 coordinate axes / -40...85 °C
Continuous shock resistance	EN 60068-2-27	40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20...50 °C
Fast temperature changes	EN 60068-2-14 Na	TA = -40 °C; TB = 85 °C; t1 = 30 min; t2 = < 10 s; 50 cycles
Salt spray test	EN 60068-2-52 Kb	severity level 5 (4 test cycles)
MTTF	[years]	1253
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	A052
	File number UL	E174191
Mechanical data		
Weight	[g]	126.8
Housing		Threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 70

IIM215



Inductive sensor

IIC022-BSKG/V4A/US-104

Thread designation	M30 x 1.5
Material	housing: stainless steel (1.4404 / 316L); sensing face: LCP white; LED window: PEI; lock nuts: brass white bronze coated
Tightening torque [Nm]	80

Displays / operating elements

Display	Switching status	4 x 90° LED, yellow
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Accessories

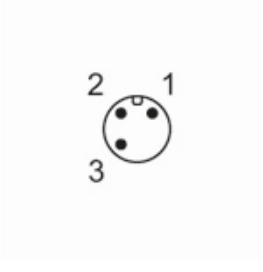
Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

