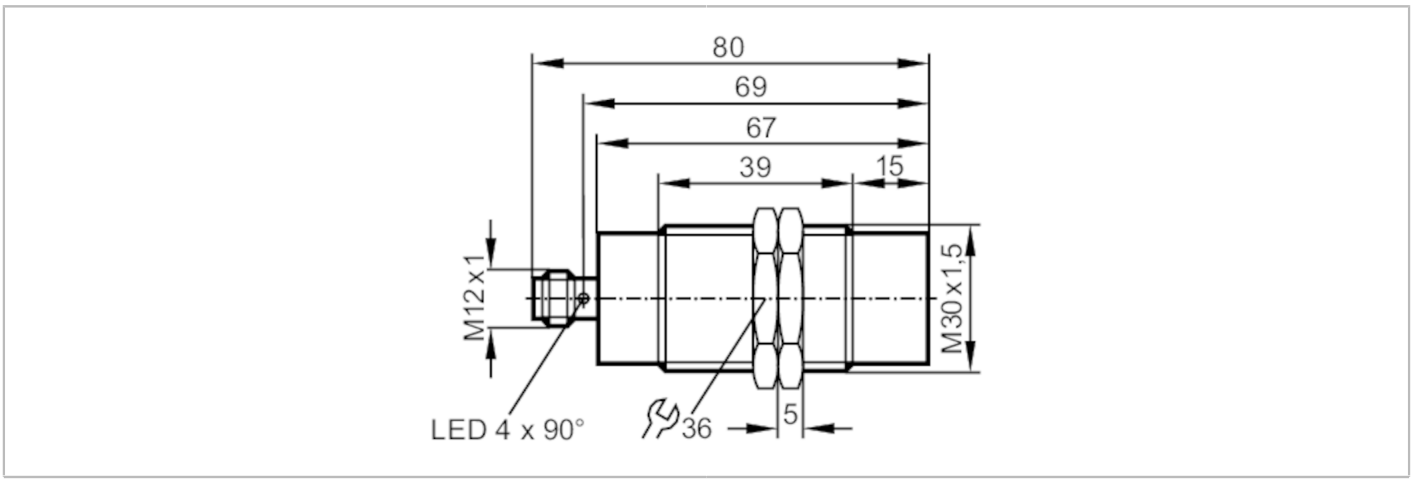
GI701S

Fail-safe inductive sensor

GIIA-4030-US/2OSSD/V4A



Product characteristics		
Electrical design		PNP
Output function		2 x OSSD (A1 and A2)
Enable zone	[mm]	6...12
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 80
Application		
Special feature		Gold-plated contacts
Type of operation		continuous operation (maintenance-free)
Safety-related function		safe state when undamped
Application		industrial application
Electrical data		
Operating voltage	[V]	19.2...30 DC
Rated insulation voltage	[V]	30
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	5000
Outputs		
Electrical design		PNP
Output function		2 x OSSD (A1 and A2)
Max. voltage drop switching output DC	[V]	2.5; (100 mA)
Permanent current rating of switching output DC	[mA]	100
Output data		Interface type C class 0
Output voltage at 24 V		compatible with EN 61131-2 inputs type 1, 2, 3
Short-circuit protection		yes
Max. capacitive load CL_max	[nF]	20

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Detection zone			
Enable zone	[mm]	6...12	
Safe switching-off distance s(ar)	[mm]	30	
Response times			
Response time to safety request	[ms]	50	
Response time when approaching the enable zone	[ms]	200	
Risk time (response time for safety-related faults)	[ms]	100	
Operating conditions			
Applications		class C to EN 60654-1 weatherproof application	
Ambient temperature	[°C]	-25...70	
Note on ambient temperature		operational life ≤ 87600 h	
Ambient temperature	[°C]	10...40	
Note on ambient temperature		operational life ≤ 175200 h	
Rate of temperature change	[K/min]	0.5	
Max. relative air humidity	[%]	briefly: 5...95 %; permanent: 5...70 %	
Air pressure	[kPa]	80...106	
Max. height above sea level	[m]	2000	
Ionising radiation		not permissible	
Salt spray		no	
Protection		IP 68; IP 69K	
Tests / approvals			
EMC		IEC 60947-5-2	
		IEC 60947-5-3	
		EN 61000-4-2 ESD	6 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	20 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
		EN 61000-4-8	30 A/m
		EN 55011	class B
Shock resistance		IEC 60947-5-2	
Vibration resistance		IEC 60947-5-2	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		File number UL	E174191
Safety classification			
Complies with the requirements		ISO 13849-1: 2015 category 3, PL e	
		IEC 61508 SIL 3	
		IEC 62061 SIL 3	
Mission time TM	[h]	≤ 175200	
Mission time TM (additional indication)		20 years	
PFH	[1/h]	1E-08	

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Mechanical data		
Weight	[g]	259.5
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 80
Thread designation		M30 x 1.5
Materials		stainless steel (1.4404 / 316L); PBT

Displays / operating elements		
Display	operation	1 x LED, green
	signal	1 x LED, yellow

Accessories	
Items supplied	lock nuts: 2

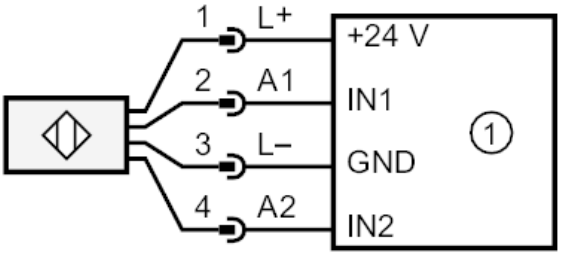
Remarks	
Remarks	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range.
	(FE360 = ST37K) 45x45x1 mm
Pack quantity	1 pcs.

Electrical connection - plug

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



Connection



1: safety-related logic unit