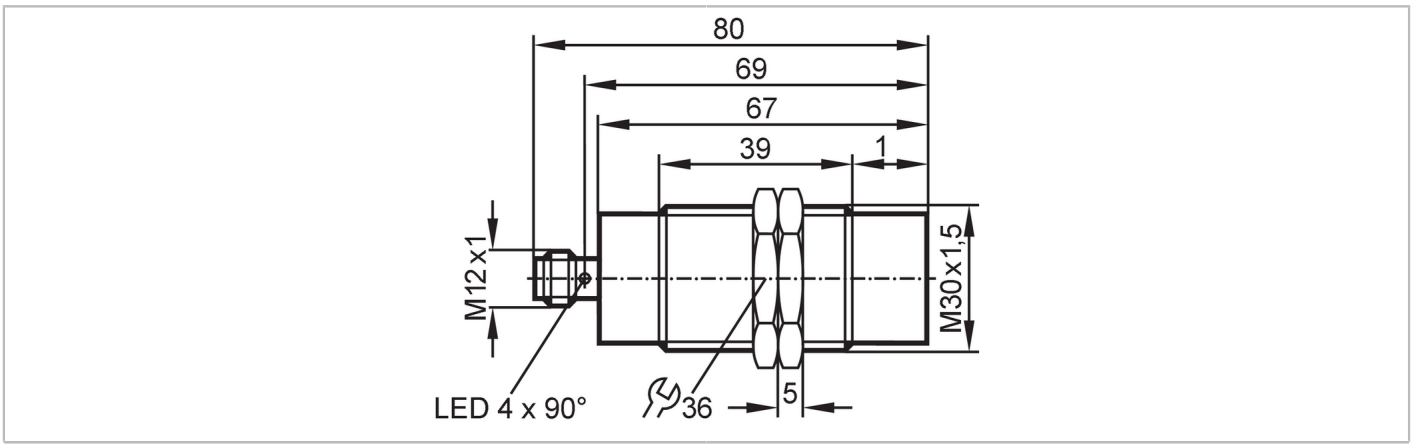
GI701S

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 sub-function		safe state when properly undamped
Application		Industrial applications / factory automation
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
Detection zone		
Enable zone	[mm]	6...12

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Safe switch-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 sheltered locations
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	
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
Mechanical data		
Weight [g]		252.4
Housing		threaded type
Mounting		non-flush mountable
Dimensions [mm]		M30 x 1.5 / L = 80
Thread designation		M30 x 1.5
Materials		stainless steel (316L/1.4404); PBT

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

Accessories	
Items supplied	lock nuts: 2

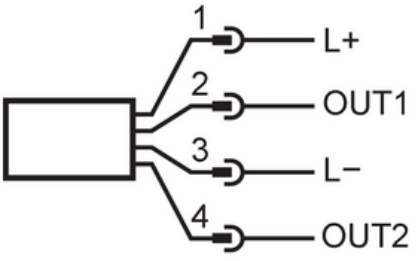
Remarks	
Remarks	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range.
	(FE360 = ST37K) 45x45x1 mm
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection



1	L+	
2	OUT1	OSSD1
3	L-	
4	OUT2	OSSD2

OUT: Output