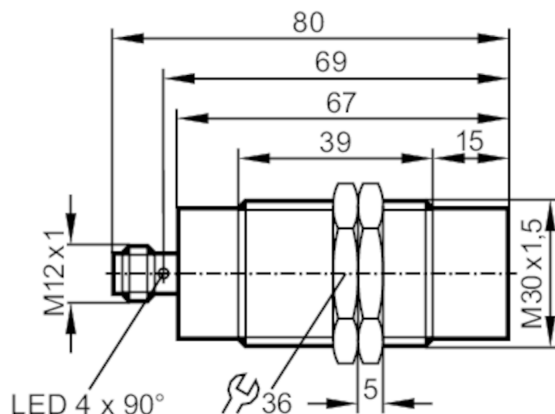


Fail-safe inductive sensor

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 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



Fail-safe inductive sensor

GIIA-4030-US/2OSSD/V4A

Detection zone		
Enable zone	[mm]	6...12
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

GI701S



Fail-safe inductive sensor

GIIA-4030-US/2OSSD/V4A

Dimensions	[mm]	M30 x 1.5 / L = 80
Thread designation		M30 x 1.5
Materials		stainless steel (316L/1.4404); PBT

Displays / operating elements

Display	operation	1 x LED, green
	signal	1 x LED, yellow

Accessories

Items supplied	lock nuts: 2
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Remarks

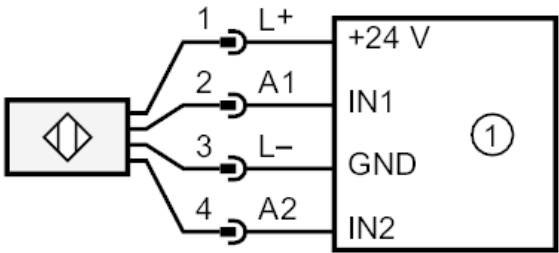
Remarks	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range. (FE360 = ST37K) 45x45x1 mm
Pack quantity	1 pcs.

Electrical connection - plug

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



Connection



1: safety-related logic unit