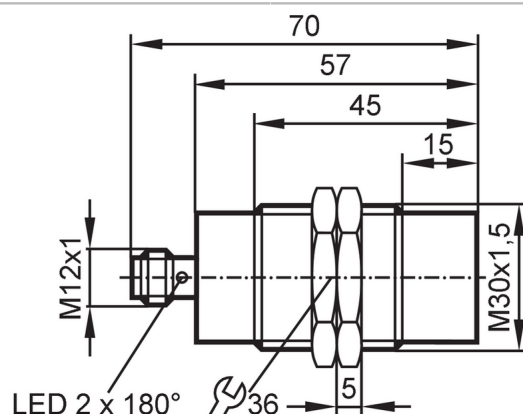


Fail-safe inductive sensor

GIIA4015-2PS/SIL2/V4A/US



Product characteristics

Electrical design	PNP
Output function	2 x OSSD (A1 and A2)
Enable zone [mm]	1...15
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 70

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

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]	1000

Outputs

Electrical design	PNP
Output function	2 x OSSD (A1 and A2)
Max. voltage drop switching output DC [V]	2.5; (30 mA)
Permanent current rating of switching output DC [mA]	100
Output data	Interface type C class 1
Output voltage at 24 V	compatible with EN 61131-2 inputs type 1, 2
Short-circuit protection	yes
Overload protection	no
Max. capacitive load CL_max [nF]	20



Fail-safe inductive sensor

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Monitoring range		
Enable zone	[mm]	1...15
Safe switching-off distance s(ar)	[mm]	22
Reaction times		
Response time to safety request	[ms]	10
Response time when approaching the enable zone	[ms]	1
Risk time (response time for safety-related faults)	[ms]	30
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
Ionizing radiation	not permissible	
Salt spray	no	
Protection	IP 65; IP 67	
Tests / approvals		
EMC	IEC 60947-5-2	
	IEC 60947-5-3	
	EN 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 2, PL d	
	IEC 61508 SIL 2	
	IEC 62061 SIL 2	
Mission time TM	[h]	≤ 175200
Mission time TM (additional indication)		20 years
PFH	[1/h]	1,0E-07
Mechanical data		
Weight	[g]	193.5
Housing	Threaded type	

GI711S



Fail-safe inductive sensor

GIIA4015-2PS/SIL2/IV4A/US

Mounting	non-flush mountable
Dimensions [mm]	M30 x 1.5 / L = 70
Thread designation	M30 x 1.5
Material	housing: stainless steel (1.4571/316Ti); sensing face: PBT

Displays / operating elements

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

Accessories

Items supplied	lock nuts: 2
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Remarks

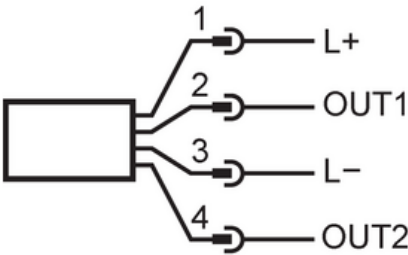
Remarks	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range. (FE360 = ST37K) 45x45x1 mm
Pack quantity	1 pcs.

Electrical connection - plug

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



Connection



1	L+	
2	OUT1	OSSD1
3	L-	
4	OUT2	OSSD2
OUT: Output		