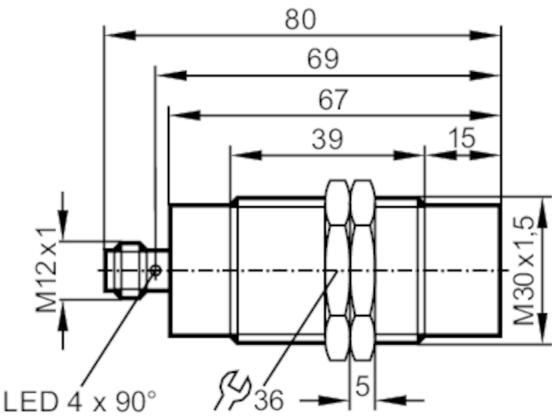




Fail-safe inductive sensor

GIIA-4030-3PT/SIL3/V4A/US



Product characteristics		
Output function		clock signal
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
Current consumption	[mA]	< 15
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	5000
Inputs		
Max. input capacitance Ci_max	[nF]	2
Outputs		
Output function		clock signal
Output data		Interface type B
Short-circuit protection		yes
Max. capacitive load CL_max	[nF]	20
Detection zone		
Enable zone	[mm]	6...12
Safe switching-off distance s(ar)	[mm]	30



Fail-safe inductive sensor

GIIA-4030-3PT/SIL3/V4A/US

Response times		
Response time to safety request	[ms]	20
Response time when approaching the enable zone	[ms]	200; (typical 100)
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	0...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
Ionising radiation		not permissible
Salt spray		no
Protection		IP 68; IP 69K; (to EN 60529)
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
Mission time TM	[h]	≤ 175200
Mission time TM (additional indication)		20 years
PFH	[1/h]	1E-08
Mechanical data		
Weight	[g]	263.5
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 80
Thread designation		M30 x 1.5
Materials		PEEK; stainless steel; O-ring: FKM
Displays / operating elements		
Display	operation	1 x LED, green
	signal	1 x LED, yellow

GI506S



Fail-safe inductive sensor

GIIA-4030-3PT/SIL3/V4A/US

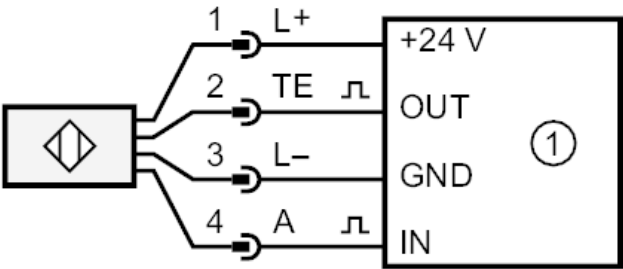
Accessories	
Items supplied	lock nuts: 2
Remarks	
Remarks	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range. (FE360 = ST37K) 45x45x1 mm
Pack quantity	1 pcs.

Electrical connection - plug

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



Connection



1 = safety-related logic unit