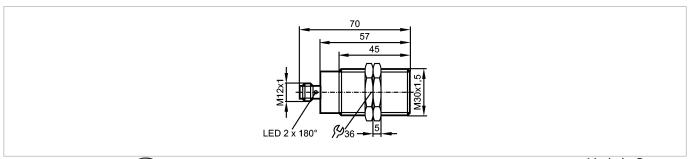
efector100°

GI712S

GIIA4010-2PS/SIL2/US







Made in Germany

Product characteristics

Fail-safe inductive sensor

Metal thread M30 x 1.5

M12 connector

Enable zone 1...10 mm; [f] flush mountable

Complies with the requirements:

EN ISO 13849-1: 2008 Category 2 PL d (can be used in applications up to cat. 3)

IEC 61508: SIL 2 IEC 62061: SILcl 2

Application

Type of operation		continuous operation (maintenance-free)					
Electrical data							
Electrical design		DC PNP					
Operating voltage	[V]	24 DC (19.230 DC)					
Rated insulation voltage	[V]	30					
Current consumption	[mA]	< 30					
Protection class		III					
Reverse polarity protection		yes					
Power-on delay time	[s]	1					

Outputs					
Output function	tion 2 x OSSD (A1 and A2)				
Output voltage at 24 V		compatible with EN 61131-2 inputs type 1, 2			
Voltage drop	[V]	< 2.5; (30 mA)			
Current rating	[mA]	100			
Short-circuit protection		yes			
Monitoring range					

Monitoring range		
Enable zone [mm]	110	
Safe switching off distance s(ar)[mm]	15	
Reaction times		
response time to safety request [ms]	≤ 10	
response time when approaching the enable zone (enable time) [ms]	≤1	
Risk time (response time for safety-related faults) [ms]	≤ 30	
Environment		

Environment						
Applications		Class C to EN 60654-1 weatherproof application				
Ambient temperature	[°C]	-2570, for service life \leq 87600 h 1040, for service life \leq 175200 h				

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Remarks Remarks

GIIA4010-2PS/SIL2/US



Inductive sensors

Rate of temperature change [K/I	min]	0.5			
Max. relative air humidity	[%]	595, briefly 570, permanently			
Air pressure [k	κPa]	80106			
Height above sea level	[m]	≤ 2000			
Ionising radiation		not permissible			
Salt spray		no			
Protection		IP 65 / IP 67			
Tests / approvals					
EMC		IEC 60947-5-2			
Shock resistance		IEC 60947-5-2			
Vibration resistance		IEC 60947-5-2			
Safety classification					
MIssion time TM	[h]	≤ 175200, (20 years)			
Safety-related reliability PFHd [[1/h]	1.0E-07			
MTTFd [Ye	ars]	2011			
DC/CCF/Cat.		87 % / 70 % / 2			
Mechanical data					
Mounting		flush mountable			
Housing materials		brass white bronze coated; PBT			
Weight	[kg]	0.22			
Displays / operating elements					
Display		LED yellow (signal), LED green (power)			
Electrical connection					
Connection		M12 connector; gold-plated contacts			
Wiring					
2 A1 IN1 GND (1)					
	ر ت relat-	ed logic unit			
Accessories					
Accessories (included)		2 lock nuts			

temperature range.

Unless stated otherwise, all data refer to the 30x30x1 mm reference target plate to IEC 60947-5-2 (FE360 = mild steel) over the whole

1

Pack quantity	[piece]	
ifm efector inc. 782 Springdale Drive	Exton. PA 19341	— US — GI712S — 21.08.2013