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GI712S

GIIA4010-2PS/SIL2/US



70 57 45 45 VX



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

IEC 61508: SIL 2 IEC 62061: SILcl 2

Application	
Type of operation	continuous operation (maintenance-free)
Electrical data	
Electrical design	DC PNP

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Operating voltage	[V]	24 DC (19.230 DC)
Rated insulation voltage	[V]	30
Current consumption	[mA]	< 30
Protection class		III
Reverse polarity protection		yes

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Power-on delay time	[s]	

Outputs		
Output function		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
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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	

Response time to safety reques	t[ms]	≤ 10
Response time when approaching enable zone (enable time)	ng the [ms]	≤1
Risk time (response time for safety-related faults)	[ms]	≤ 30

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Environment		
Applications	Class C to EN 60654-1 weatherproof application	
Ambient temperature [°C	-2570, for service life ≤ 87600 h 1040, for service life ≤ 175200 h	
Rate of temperature change [K/mi	0.5	
Max. relative air humidity [9	595, briefly 570, permanently	
Air pressure [kP	80106	
Height above sea level [r	2000 ≤ 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	1] ≤ 175200, (20 years)	
Safety-related reliability PFHd [1/	1.0E-07	
MTTFd [Year	2011	
DC/CCF/Cat.	87 % / 70 % / 2	
Mechanical data		
Mounting	flush mountable	
Housing materials	Brass white bronze coated; PBT	
Weight [k	0.22	
Displays / operating elements		
Display	LED yellow (signal), LED green (power)	
Electrical connection		
Connection	M12 connector; Gold-plated contacts	
Wiring 2 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1		
1: Safety-related logic unit		

Accessories			
Accessories (included)	2 lock nuts	
Remarks			
Remarks		Unless stated otherwise, all data refer to the 30x30x1 mm reference target plate to IEC 60947-5-2 (FE360 = mild steel) over the whole temperature range.	
Pack quantity	[piece]	1	