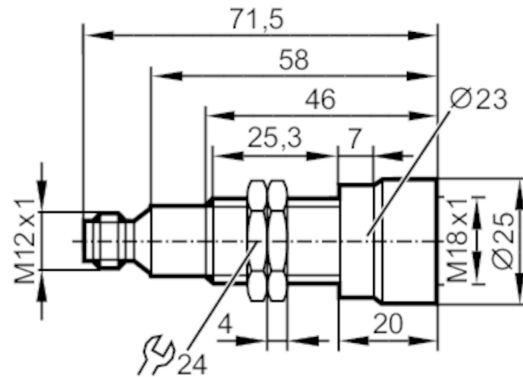


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Fail-safe inductive sensor

GIGA4008-2PS/SIL2/N4A/US



Product characteristics

Electrical design	PNP
Output function	2 x OSSD (A1 and A2)
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 71.5

Application

Special feature	Gold-plated contacts
Type of operation	continuous operation (maintenance-free)
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

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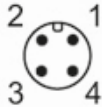
Detection zone		
Enable zone	[mm]	0...6.5
Safe switching-off distances(ar)	[mm]	11
Response times		
Response time to safety request	[ms]	1
Response time when approaching the enable zone	[ms]	1
Risk time (response time for safety-related faults)	[ms]	20
Operating conditions		
Ambient temperature	[°C]	-40...70
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		IEC 60068-2-52
Protection		IP 65; IP 67; IP 69K; (with ifm socket duly screwed on)
UV radiation		DIN ISO 4892-1, DIN ISO 4892-2
Chemical media		test according to ISO 16750-5
		The following media were tested for 22 hours at 75 °C
		Liebherr Hydraulik 37
		Liebherr Hydraulik Gear ATF
		Liebherr Hydraulik Plus Arctic
		diesel
		biodiesel
		brake fluid
		urea
		The following media were tested for 22 hours at 25 °C
	battery acid	
	cold cleaner	
	ammonia-based cleaner	
	The following media were tested for 2 hours at 25 °C	
	wheel rim cleaner	
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

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Safety classification	
ISO 13849-1	category 2, PL d
IEC 61508	SIL 2
IEC 62061	SIL cl 2
Mission time TM [h]	≤ 87600
Mission time TM (additional indication)	10 years
Safety-related reliability PFHD [1/h]	1.0E-07
Mechanical data	
Weight [g]	136
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M18 x 1 / L = 71.5
Thread designation	M18 x 1
Materials	housing: stainless steel (1.4404 / 316L) ; cover: PBT; plug: PPS GF40
Accessories	
Accessories (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) 24x24x1 mm
Pack quantity	1 pcs.
Electrical connection - plug	
Connector: 1 x M12; Contacts: gold-plated	
	

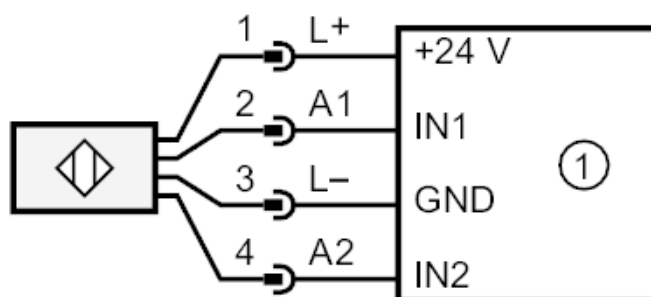
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Connection



1: safety-related logic unit