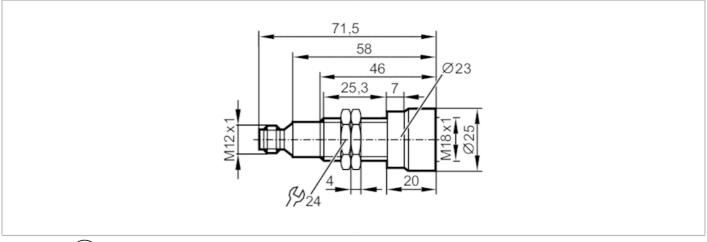
GG714S

Fail-safe inductive sensor

GIGA4008-2PS/SIL2/V4A/US







Product characteristics			
Electrical design		PNP	
Output function		2 x OSSD (A1 and A2)	
Enable zone	[mm]	06.5	
Housing		Threaded type	
Dimensions	[mm]	M18 x 1 / L = 71.5	
Application			
System		gold-plated contacts	
Type of operation		continuous operation (maintenance-free)	
Safety-related function		safe state when undamped	
Application		Industrial applications	
Electrical data			
Operating voltage	[V]	19.230 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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Monitoring range				
Enable zone	[mm]	0	.6.5	
Safe switching-off distance [mm] s(ar)		11		
Reaction times				
Response time to safety [ms] request		1		
Response time when [ms] approaching the enable zone		1		
Risk time (response time for safety-related faults)	[ms]	2	20	
Operating conditions				
Ambient temperature [°C]		-4070		
Rate of temperature change [K/min]		0.5		
Max. relative air humidity [%]		briefly: 595 %; permanent: 570 %		
Air pressure [kPa]		80106		
Max. height above sea level	[m]		000	
Ionizing radiation	[]			
Salt spray		not permissible		
Protection		IEC 60068-2-52		
		IP 65; IP 67; IP 69K; (with ifm socket duly screwed on)		
UV radiation			, DIN ISO 4892-2	
Chemical media		test according to ISO 16750-5		
		The following media were tested for 22 hours at 75 $^{\circ}\text{C}$	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		
			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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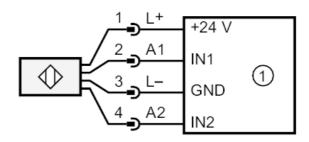


Safety classification			
Complies with the		ISO 13849-1: 2015 Category 2, PL d	
requirements		IEC 61508 SIL 2	
		IEC 62061 SIL 2	
MIssion time TM	[h]	≤ 87600	
Mission time TM (additiona indication)	I	10 years	
PFH	[1/h]	1,0E-07	
Mechanical data			
Weight	[g]	130	
Housing		Threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M18 x 1 / L = 71.5	
Thread designation		M18 x 1	
Material		housing: stainless steel (1.4404 / 316L); sensing face: PBT; Protective cover: PPS GF40; LED window: PA; lock nuts: stainless steel (1.4404 / 316L)	
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) 24x24x1 mm	
Pack quantity		1 pcs.	

Connector: 1 x M12; coding: A; Moulded body: PPS GF40; Contacts: gold-plated



Connection



1: Safety-related logic unit