

GG762S



Fail-safe inductive sensor

GIGK4004B2PS/SIL2/AM/US



Product characteristics		
Electrical design		PNP
Enable zone	[mm]	0...3.5
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 60
Application		
System		gold-plated contacts; Full-metal housing
Type of operation		permanent operation
Safety-related sub-function		Sicherer Zustand bei korrekter Entdämpfung (s > sAs (sar))
Application		constant cleaning with aggressive cleaning agents; regular cleaning processes
Electrical data		
Operating voltage	[V]	10...30 DC
Rated insulation voltage	[V]	60
Current consumption	[mA]	< 10; (24 V)
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	500
Outputs		
Electrical design		PNP
Max. voltage drop switching output DC	[V]	2.5
Number of OSSD outputs		2
Max. current load per OSSD output	[mA]	50
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		yes
Max. capacitive load CL_max	[nF]	20
Monitoring range		
Enable zone	[mm]	0...3.5



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Safe switch-off distance sAs [mm] (sar)	10.5
Accuracy / deviations	
Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.8 / aluminum: 0.6 / copper: 0.3
Reaction times	
Response time when approaching the enable zone, turn-on time (ton) [ms]	20
Response time to safety request, turn-off time (toff) [ms]	20
Risk time / error handling time (toff max) [ms]	100
Operating conditions	
Ambient temperature [°C]	-25...100
Max. height above sea level [m]	3000
Ionizing radiation	not permissible
Protection	IP 65; IP 66; IP 67; IP 68; IP 69K
Chemical media	Folgende Medien wurden 28 Tage bei 40 °C und einer Konzentration von 5% geprüft
	P3-topax 19
	P3-topax 56
	P3-topax 66
	Topactive OKTO
Tests / approvals	
EMC	industrial environments
	EN 60947-5-3
	EN 61000-4-2 ESD
	EN 61000-4-3 HF radiated
	EN 61000-4-3 HF radiated
	EN 61000-4-4 Burst
	EN 61000-4-5 Surge
	EN 61000-4-6 HF conducted
	EN 61000-4-8
	EN 55011
Shock resistance	EN 60068-2-27 Ea
Continuous shock resistance	EN 60068-2-27 Ea
Fast temperature changes	EN 60068-2-14 Nc
Vibration resistance	EN 60068-2-6 Fc
Safety classification	
Complies with the requirements	ISO 13849-1 Category 2, PL d
	IEC 61508 SIL 2, HFT 0, SC 2
Mission time TM [h]	≤ 87600
Mission time TM (additional indication)	industrial environments Temperature range -25...70 °C ≤ 175200
PFH [1/h]	< 1,5E-07

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Mechanical data		
Weight	[g]	54.9
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 60
Thread designation		M18 x 1
Material		threaded sleeve: stainless steel (1.4404 / 316L); sensing face: stainless steel (1.4404 / 316L); LED window: PEI; LED sealing: PU; lock nuts: stainless steel (1.4404 / 316L)
Tightening torque	[Nm]	50
Full-metal housing		yes
Displays / operating elements		
Display	Display switching status	4 LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Remarks		Einsetzbar in Applikationen bis SIL 2 nach IEC 62061
		Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range.
		(FE360 = ST37-2K) 18x18x1 mm
		the correction factors apply to an ambient temperature of 20°C
		do not use a correction factor for the safe switch-off distance sAs/(sar)
Pack quantity		1 pcs.
Electrical connection - plug		
Connector: 1 x M12; coding: A; Contacts: gold-plated		

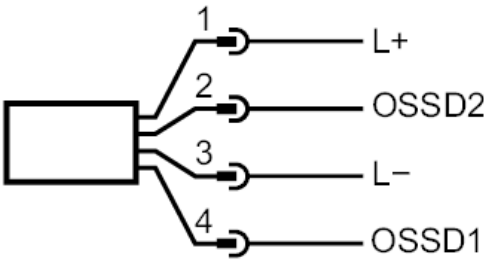
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Connection



1	L+
2	OSSD2
3	L-
4	OSSD1