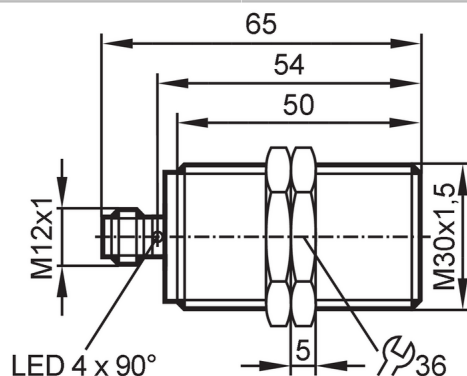


Fail-safe inductive sensor

GIK4008B2PS/SIL2/AM/US



Product characteristics

Electrical design	PNP
Enable zone [mm]	0...6
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 65

Application

Special feature	gold-plated contacts; Full-metal housing
Type of operation	permanent operation
Safety-related sub-function	safe state when properly undamped
Application	Use in hygienic areas / 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...6
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Fail-safe inductive sensor

GIK4008B2PS/SIL2/AM/US

Safe switch-off distance sAs [mm] (sar)	18
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; (flush mounting with a single stainless steel fixing nut: 250 ms)
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	the following media were tested for 28 days at 40 °C and with a concentration of 5 %
	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

GI762S



Fail-safe inductive sensor

GIHK4008B2PS/SIL2/AM/US

Mechanical data		
Weight	[g]	134.8
Housing		Threaded type
Mounting		flush mountable
Dimensions	[mm]	M30 x 1.5 / L = 65
Thread designation		M30 x 1.5
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]	70
Full-metal housing		yes

Displays / operating elements		
Display	Display switching status	4 LED, yellow

Accessories	
Items supplied	lock nuts: 2

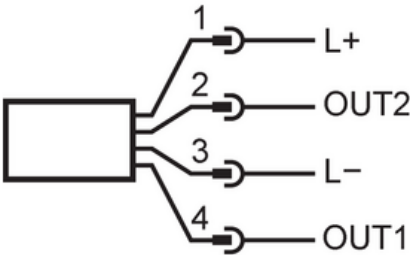
Remarks	
Remarks	can be used in applications up to SIL 2 in accordance with IEC 62061
	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range.
	(FE360 = ST37-2K) 30x30x1 mm
	the correction factors apply to an ambient temperature of 20°C
	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



Connection



1	L+	
2	OUT2	OSSD2
3	L-	
4	OUT1	OSSD1
OUT: Output		