

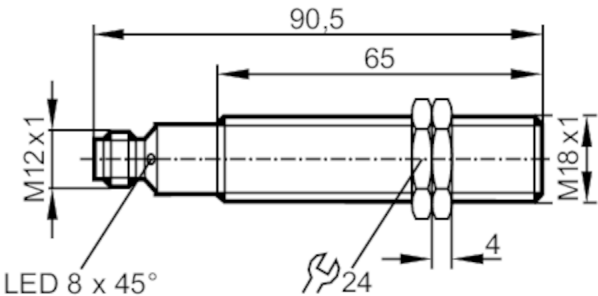
GG508S



Fail-safe inductive sensor

GIGA4010-3PT/SIL3/US

customer-specific



Product characteristics

Output function	clock signal
Enable zone [mm]	1...4
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 90.5

Application

Special feature	Gold-plated contacts
Type of operation	continuous operation (maintenance-free)
Safety-related function	safe state when undamped
Application	industrial application

Electrical data

Operating voltage [V]	19.2...30 DC
Current consumption [mA]	< 15
Protection class	III
Reverse polarity protection	yes
Max. power-on delay time [ms]	5000

Inputs

Max. input capacitance Ci_max [nF]	2
------------------------------------	---

Outputs

Output function	clock signal
Output data	Interface type B
Short-circuit protection	yes
Max. capacitive load CL_max [nF]	20

Detection zone

Enable zone [mm]	1...4
Safe switching-off distance s(ar) [mm]	10



Fail-safe inductive sensor

GIGA4010-3PT/SIL3/US

Response times		
Response time to safety request	[ms]	20
Response time when approaching the enable zone	[ms]	200; (typical 100)
Operating conditions		
Applications		class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-40...70
Note on ambient temperature		operational life ≤ 87600 h
Ambient temperature	[°C]	10...40
Note on ambient temperature		operational life ≤ 175200 h
Rate of temperature change	[K/min]	0.5
Max. relative air humidity	[%]	briefly: 5...95 %; permanent: 5...70 %
Air pressure	[kPa]	80...106
Ionising radiation		not permissible
Salt spray		no
Protection		IP 68; IP 69K; (to EN 60529)
Tests / approvals		
EMC	IEC 60947-5-2	
	IEC 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	
Safety classification		
Complies with the requirements		ISO 13849-1: 2015 category 3, PL e
		IEC 61508 SIL 3
Mission time TM	[h]	≤ 175200
Mission time TM (additional indication)		20 years
PFH	[1/h]	1E-08
Mechanical data		
Weight	[g]	177.5
Housing		threaded type
Mounting		flush mountable
Dimensions	[mm]	M18 x 1 / L = 90.5
Thread designation		M18 x 1
Materials		brass special coating; PBT
Displays / operating elements		
Display	operation	1 x LED, green
	signal	1 x LED, yellow

GG508S



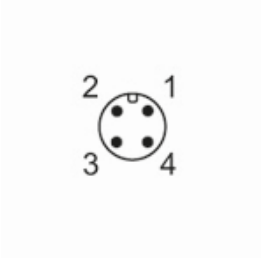
Fail-safe inductive sensor

GIGA4010-3PT/SIL3/US

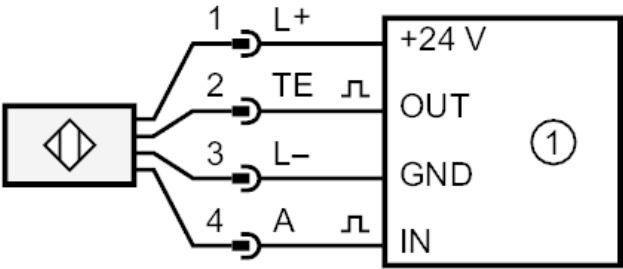
Аксессуары	
Items supplied	lock nuts: 2
Remarks	
Remarks	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range. (FE360 = ST37K) 24x24x1 mm
Notes	customer-specific
Pack quantity	1 pcs.

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



1 = safety-related logic unit