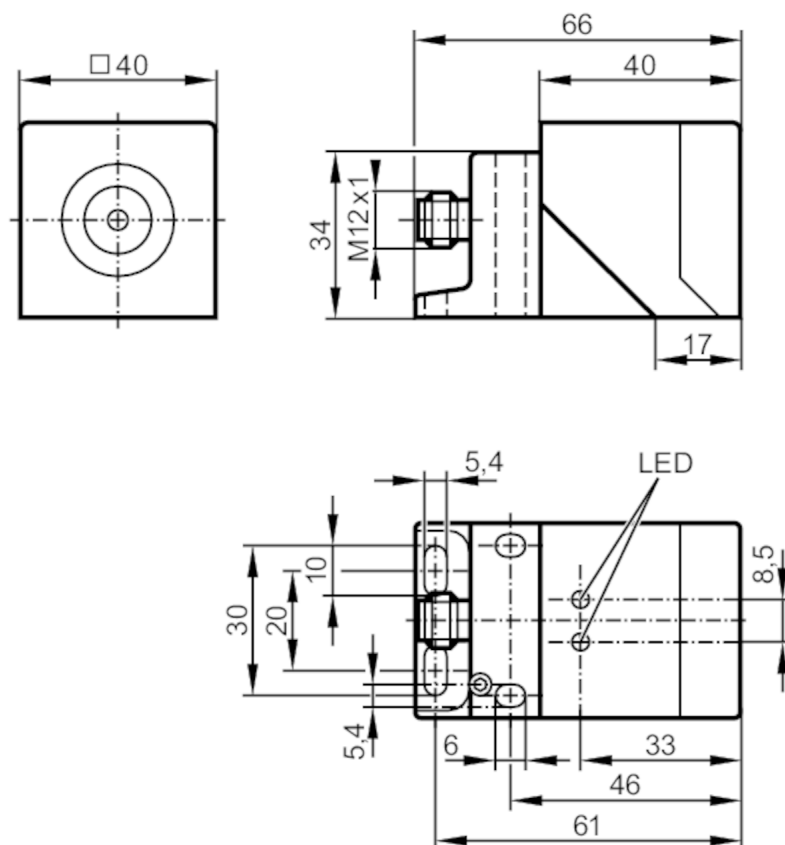


GM504S

Fail-safe inductive sensor

GIMC-4030-US



Product characteristics

Output function		Clock signal
Enable zone	[mm]	10...15
Housing		rectangular
Dimensions	[mm]	40 x 40 x 66

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

GM504S



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GIMC-4030-US

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
Monitoring range		
Enable zone	[mm]	10...15
Safe switching-off distance s(ar)	[mm]	30
Reaction 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]	-25...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
Ionizing radiation		not permissible
Salt spray		no
Protection		IP 65; IP 67; (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	
UL approval	Ta	-25...70 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	File number UL	E174191

GM504S



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GIMC-4030-US

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]	358	
Housing	rectangular	
Mounting	non-flush mountable	
Dimensions [mm]	40 x 40 x 66	
Material	PPE; diecast zinc	
Displays / operating elements		
Display	Power	1 x LED, green
	signal	1 x LED, yellow
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) 45x45x1 mm	
Pack quantity	1 pcs.	
Electrical connection - plug		
Connector: 1 x M12; coding: A; Contacts: gold-plated		
		

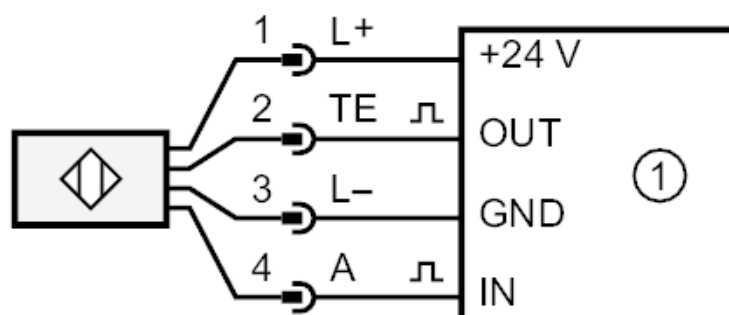
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GIMC-4030-US

Connection



1 = Safety-related logic unit