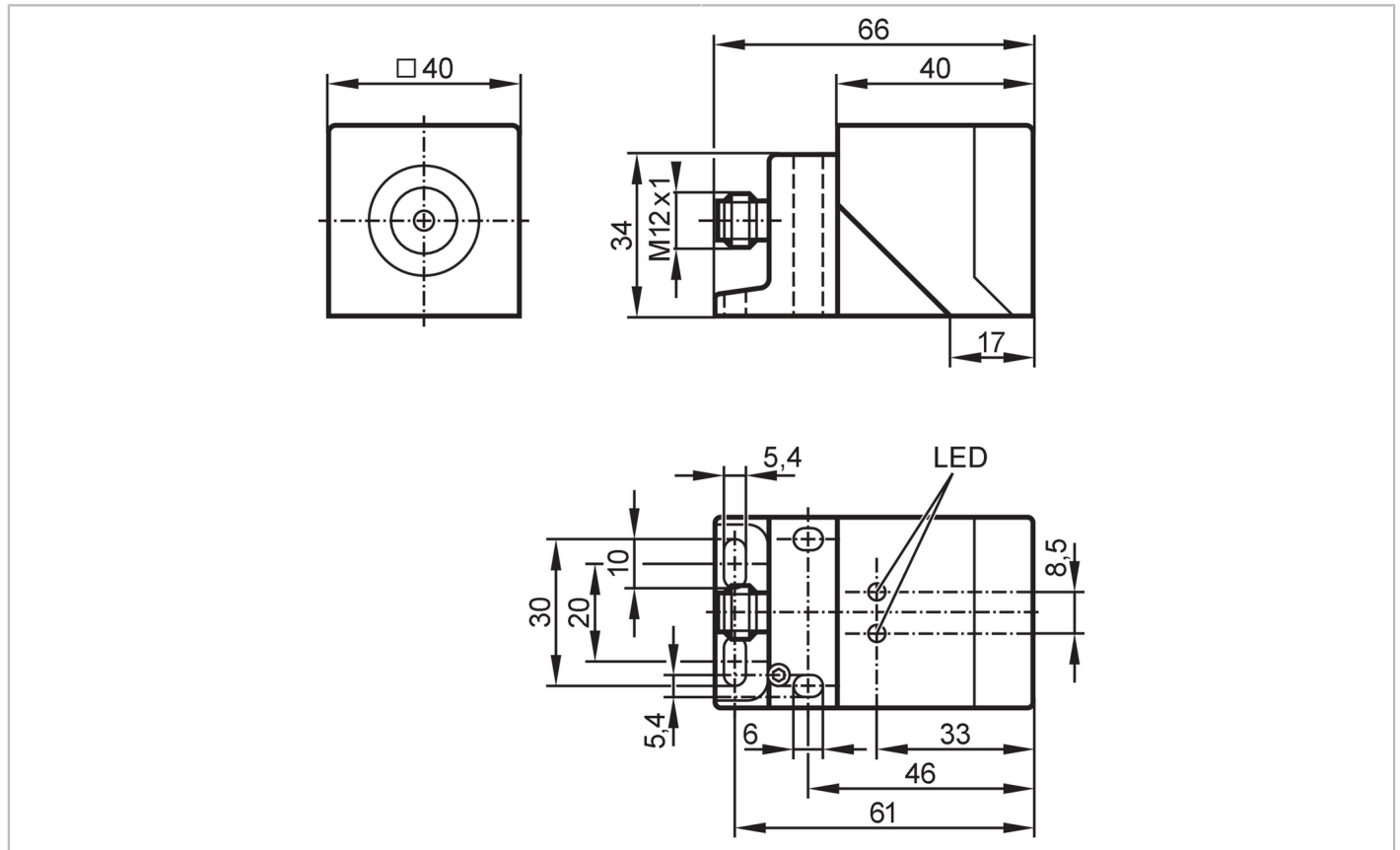


GM705S



Fail-safe inductive sensor

GIMC-4045-US/2OSSD



Product characteristics		
Electrical design		PNP
Output function		2 x OSSD (A1 and A2)
Enable zone	[mm]	4...20
Housing		rectangular
Dimensions	[mm]	40 x 40 x 66
Application		
Special feature		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]	< 30
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	5000
Outputs		
Electrical design		PNP

GM705S



Fail-safe inductive sensor

GIMC-4045-US/2OSSD

Output function		2 x OSSD (A1 and A2)
Max. voltage drop switching output DC	[V]	2.5; (100 mA)
Output data		Interface type C class 0
Output voltage at 24 V		compatible with EN 61131-2 inputs type 1, 2, 3
Short-circuit protection		yes
Max. capacitive load CL_max	[nF]	20

Monitoring range

Enable zone	[mm]	4...20
Safe switching-off distance s(ar)	[mm]	45

Reaction times

Response time to safety request	[ms]	50
Response time when approaching the enable zone	[ms]	200
Risk time (response time for safety-related faults)	[ms]	100

Operating conditions

Applications		Class C to EN 60654-1 weatherproof application
Ambient temperature	[°C]	-25...60
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
Max. height above sea level	[m]	2000
Ionizing radiation		not permissible
Salt spray		no
Protection		IP 65; IP 67

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	

Safety classification

Complies with the requirements		ISO 13849-1: 2015 Category 3, PL e
		IEC 61508 SIL 3
		IEC 62061 SIL 3

GM705S



Fail-safe inductive sensor

GIMC-4045-US/2OSSD

Mission time TM	[h]	≤ 175200
Mission time TM (additional indication)		20 years
PFH	[1/h]	1E-08

Mechanical data

Weight	[g]	355
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

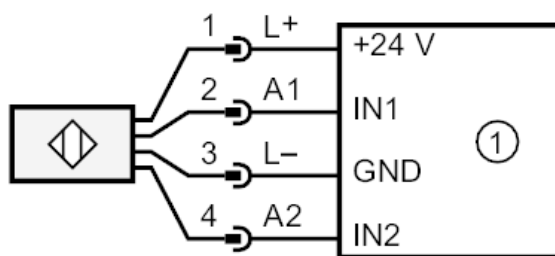
Remarks	Unless stated otherwise, all data refer to the reference target plate to IEC 60947-5-2 over the whole temperature range. (FE360 = ST37K) 60x60x1 mm
Pack quantity	1 pcs.

Electrical connection - plug

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



Connection



1: Safety-related logic unit