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Worldwide English



E57-12GE05-GDB - Proximity switch, E57 Global Series, 1 NO, 3-wire, 10 - 30 V DC, M12 x 1 mm, Sn= 5 mm, Flush, PNP, Metal, Plug-in connection M12 x 1



135870 E57-12GE05-GDB

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135870 E57-12GE05-GDB

Proximity switch, E57 Global Series, 1 NO, 3-wire, 10 - 30 V DC, M12 x 1 mm, Sn= 5 mm, Flush, PNP, Metal, Plug-in connection M12 x 1

Alternate Catalog No.

E57-12GE05-GDB

EL-Nummer (Norway)

4315369

Proximity switch, Inductive Sensors, Product range: E57 Global Series, Connection: 3-wire, Design (outer dimensions): M12 x 1 mm, Rated operational voltage: U_e = 10 - 30 V DC, Rated switching distance: Sn= 5 mm, Type of mounting: Flush, Switching type: PNP, Plug-in connection M12 x 1, Contacts N/O = Normally open: 1 NO, Material: Metal, Degree of Protection: IP67, IP69K, Standards: IEC/EN 60947-5-2

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Delivery program

Basic function
Inductive Sensors
Product range
E57 Global Series
Connection
3-wire
Design (outer dimensions)
M12 x 1 mm
Rated operational voltage [U_e]
10 - 30 V DC
Rated switching distance [S_n]
5 mm
Type of mounting
Flush
Switching type
PNP
For connection of:
Plug-in connection M12 x 1
Contacts
NO = Normally open
1 NO
Material
Metal
Degree of Protection
IP67, IP69

Technical data

General
Standards
IEC/EN 60947-5-2

Ambient temperature
 0 - +60
 Mechanical shock resistance
 30
 Shock duration 11 ms g
 Degree of Protection
 IP67, IP69
 Characteristics
 Rated switching distance Rated switching distance [S_n]
 5 mm
 Repetition accuracy of S_n
 1 %
 Temperature drift of S_n
 10 %
 Switching hysteresis of S_n
 15 %
 Rated operational voltage [U_a]
 10 - 30 V DC
 Residual ripple of U_b
 10 %
 Maximum load current [I_b]
 < 100 mA
 Operating current in the switched state at 24 V DC [I_b]
 10 mA
 Voltage drop at I_b [U_d]
 1.5 V
 Switching Frequency
 2000 Hz
 Residual current through the load in the blocked state at 230 V AC and 24 V DC [I_r]
 0.01 mA
 Switching state display
 Red LED
 Protective functions
 Short-circuit protective device
 Protection against polarity reversal
 Protection against wire breakage
 Connection
 3-wire
 Contacts NO = Normally open
 1 NO
 Style Design (outer dimensions)
 M12 x 1 mm
 For connection of:
 Plug-in connection M12 x 1
 Material
 Metal

Design verification as per IEC/EN 61439

Operating ambient temperature min.
 0 °C
 Operating ambient temperature max.
 +60 °C

Technical data ETIM 7.0

Sensors (EG000026) / Inductive proximity switch (EC002714)
 Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-27-01-01 [AGZ376015])
 Width sensor
 0 mm
 Height of sensor
 0 mm
 Length of sensor
 69 mm
 Diameter sensor
 12 mm
 Mechanical mounting condition for sensor
 Concise
 Switching distance

5 mm
Suitable for safety functions
No
Type of switch function
Normally open contact
Type of switching output
PNP
Type of electric connection
Connector M12
Number of semiconductor outputs with signalling function
1
Number of contact energized outputs with signalling function
0
Number of protected semiconductor outputs
0
Number of protected contact energized outputs
0
Type of actuation
Metallic Target
Type of interface
None
Type of interface for safety communication
None
Construction type housing
Cylinder, screw-thread
Coating housing
Other
Cascadable
No
Category according to EN 954-1
B
SIL according to IEC 61508
None
Performance level acc. EN ISO 13849-1
None
Max. output current at protected output
0 mA
Supply voltage
10 - 30 V
Rated control supply voltage U_s at AC 50HZ
0 - 0 V
Rated control supply voltage U_s at AC 60HZ
0 - 0 V
Rated control supply voltage U_s at DC
10 - 30 V
Voltage type
DC
Switching frequency
2000 Hz
With monitoring function downstream switching devices
No
Material housing
Metal
Compression-resistant
No
Explosion safety category for gas
None
Explosion safety category for dust
None
Interference resistance to magnetic fields

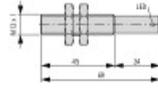
Approvals

Product Standards
UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.
CSA report applies to both Canada and US
UL Category Control No.

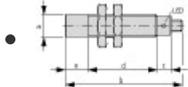
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CSA File No.
224447
CSA Class No.
4652-04 / 4652-84
North America Certification
CSA certified, certified by CSA for use in the US
Max. Voltage Rating
30 V DC
Degree of Protection
IEC: IP67, IP69K; UL/CSA Type: -

Dimensions

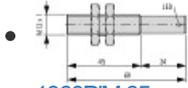


Dimensions single product



1360DIM-47

Line drawing



1360DIM-65

Line drawing

Product photo



1360PIC-17

Photo

3D drawing



1311090

Line drawing

Construction type: Cylinder

Instruction Leaflet

- [Inductive sensors: Global Series \(IL05301002Z\)](#)
Asset
(PDF, multilingual)

Declaration of Conformity

EU

- [Inductive Proximity Sensors Tubular \(DA-DC-00003286\)](#)
Asset
(PDF)

CAD data

edz files

- [DA-CE-ETN.E57-12GE05-GDB](#)

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