



135854

E57-08GE03-GDB



Overview



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DELIVERY PROGRAM

Basic function
Inductive Sensors

Product range
E57 Global Series

Connection
3-wire

Design (outer dimensions)
M8 x 1 mm

Rated operational voltage [U_e]
10 - 30 V DC

Rated switching distance [S_n]
3 mm

Type of mounting
Flush

Switching type

RNP

For connection of:
Plug-in connection M12 x 1

Contacts

NO = Normally open
1 NO

Material
Stainless steel

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]
3 mm

Repetition accuracy of S_n
1 %

Temperature drift of S_n
10 %

Switching hysteresis of S_n
15 %

Rated operational voltage [U_e]
10 - 30 V DC

Residual ripple of U_e
10 %

Maximum load current [I_e]
< 100 mA

Operating current in the switched state at 24 V DC
[I_b]
10 mA

Voltage drop at I_e [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
N/O = Normally open
1 NO

Style
Design (outer dimensions)
M8 x 1 mm

For connection of:
Plug-in connection M12 x 1

Material
Stainless steel

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
71 mm

Diameter sensor
8 mm

Mechanical mounting condition for sensor
Concise

Switching distance
3 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.
-

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



