



136241
E57EAL5T111SP

Overview

Specifications

Resources



Delivery program

Technical data

Design verification as per
IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

DELIVERY PROGRAM

Basic function
Inductive Sensors

Product range
E57 Miniatur Series

Connection
3-wire

Design (outer dimensions)
M5 x 1 mm

Rated operational voltage [U_a]
10 - 30 V DC

Rated switching distance [S_n]
0.8 mm

Type of mounting
Flush

Switching type
PNP

For connection of:
2 m connection cable

Contacts

N/O = Normally open
1 N/O

Material

Stainless steel

Degree of Protection
IP67

TECHNICAL DATA

General

Standards
IEC/EN 60947-5

Ambient temperature
-25 - +70

Mechanical shock resistance
30
Shock duration 11 ms g

Degree of Protection
IP67

Characteristics

Rated switching distance
Rated switching distance [S_n]
0.8 mm

Repetition accuracy of S_n
1 %

Temperature drift of S_n
10 %

Switching hysteresis of S_n
15 %

Rated operational voltage [U_o]
10 - 30 V DC

Maximum load current [I_o]
< 200 mA

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

Voltage drop at I_o [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

Connection
3-wire

Contacts
N/O = Normally open
1 N/O

Style
Design (outer dimensions)
M5 x 1 mm

For connection of:
2 m connection cable

Material
Stainless steel

DESIGN VERIFICATION AS PER IEC/EN 61439

Operating ambient temperature min.
-25 °C

Operating ambient temperature max.
+70 °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 (ec@ss10.0.1-27-27-01-01 [AGZ376015])

Width sensor
0 mm

Height of sensor
0 mm

Length of sensor
25 mm

Diameter sensor
5 mm

Mechanical mounting condition for sensor
Concise

Switching distance
0.8 mm

Suitable for safety functions
No

Type of switch function
Normally open contact

Type of switching output
PNP

Type of electric connection
Cable

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
CE marking

Max. Voltage Rating
30 V DC

Degree of Protection
IEC: IP67; UL/CSA Type: -

DIMENSIONS

