



Powering Business Worldwide



136236

E56BDL70UAD01

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DELIVERY PROGRAM

Basic function
Inductive Sensors

Product range
E56 Pancake Series

Connection
4-wire

Design (outer dimensions)
109 x 110 x 41 mm

Rated operational voltage [U_a]
10 – 42 V DC

Rated switching distance [S_n]
70 mm

Type of mounting
Non-flush

Switching type
NPN
PNP

For connection of:
Plug-in connection M12 x 1

Contacts

NC = Normally closed
1 NC

N/O = Normally open
1 N/O

Material
Insulated material

Degree of Protection
IP67

TECHNICAL DATA

General

Standards
IEC/EN 60947-5-2

Ambient temperature
-25 - +70

Degree of Protection
IP67

Characteristics

Rated switching distance
Rated switching distance [S_n]
70 mm

Repetition accuracy of S_n
2 %

Temperature drift of S_n
10 %

Switching hysteresis of S_n
15 %

Rated operational voltage [U_b]
10 – 42 V DC

Maximum load current [I_b]
< 300 mA

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

Voltage drop at I_b [U_d]
2.5 V

Switching Frequency
20 Hz

Mn. load current [I_b]
1 mA

Residual current through the load in the blocked state at 230
V AC and 24 V DC [I_r]
0.15 mA

Switching state display
Red LED

Operating voltage display
Green LED

Protective functions
Short-circuit protective device
Protection against polarity reversal

Connection
4-wire

Contacts
NC = Normally closed
1 NC

Contacts
NO = Normally open
1 NO

Style
Design (outer dimensions)
109 x 110 x 41 mm

For connection of:
Plug-in connection M12 x 1

Material
Insulated material

Surface finish
PPS

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
110 mm

Height of sensor
41 mm

Length of sensor
110 mm

Diameter sensor
0 mm

Mechanical mounting condition for sensor
Not flat

Switching distance
70 mm

Suitable for safety functions
No

Type of switch function
Anticoincidence

Type of switching output
PNP/NPN

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
Cuboid

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
6 - 48 V

Rated control supply voltage U_s at AC 50 Hz
0 - 0 V

Rated control supply voltage U_s at AC 60 Hz
0 - 0 V

Rated control supply voltage U_s at DC
6 - 48 V

Voltage type
DC

Switching frequency
20 Hz

With monitoring function downstream switching devices
No

Material housing
Plastic

Compression-resistant
No

Explosion safety category for gas
None

Explosion safety category for dust	None
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Interference resistance to magnetic fields

APPROVALS

Product Standards
UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking

UL File No.
E166051

UL Category Control No.
NRK1, NRK7

CSA File No.
UL report applies to both Canada and US

CSA Class No. _____

North America Certification
UL listed, certified by UL for use in Canada

Max. Voltage Rating
48 V DC

Degree of Protection
IEC: IP67, IP69K; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

DIMENSIONS



