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Worldwide English



Powering Business Worldwide

E56ADL40UAD01 - Proximity switch, inductive, 1NO+1NC, Sn=40mm, 4L, 6-48VDC, NPN, PNP, cubic 80mm, M12



136235 E56ADL40UAD01

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## 136235 E56ADL40UAD01

Proximity switch, inductive, 1NO+1NC, Sn=40mm, 4L, 6-48VDC, NPN, PNP, cubic 80mm, M12

Alternate Catalog No.

E56ADL40UAD01

EL-Nummer (Norway)

4315388

Proximity switch, Inductive Sensors, Product range: E56 Pancake Series, Connection: 4-wire, Design (outer dimensions): 79 x 79 x 39 mm, Rated operational voltage:  $U_e = 10 - 42$  V DC, Rated switching distance:  $S_n = 40$  mm, Type of mounting: Non-flush, Switching type: NPN, PNP, Plug-in connection M12 x 1, Contacts NC = Normally closed: 1 NC, Contacts NO = Normally open: 1 NO, Material: Insulated material, Degree of Protection: IP67, Standards: IEC/EN 60947-5-2

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Design verification as per  
IEC/EN 61439

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### Delivery program

Basic function

Inductive Sensors

Product range

E56 Pancake Series

Connection

4-wire

Design (outer dimensions)

79 x 79 x 39 mm

Rated operational voltage [ $U_e$ ]

10 – 42 V DC

Rated switching distance [ $S_n$ ]

40 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

NO = Normally open

1 NO

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 [ $S_n$ ]

40 mm

Repetition accuracy of  $S_n$

2 %

Temperature drift of  $S_n$

10 %

Switching hysteresis of  $S_n$

15 %

Rated operational voltage [ $U_o$ ]

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

100 Hz

Min. 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)

79 x 79 x 39 mm

For connection of:

Plug-in connection M12 x 1

Material

Insulated material

Surface finish

PFS

## 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 (ecl@ss10.0.1-27-27-01-01 [AGZ376015])

Width sensor

79 mm

Height of sensor

39 mm  
 Length of sensor  
 79 mm  
 Diameter sensor  
 0 mm  
 Mechanical mounting condition for sensor  
 Not flat  
 Switching distance  
 40 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 50Hz  
 0 - 0 V  
 Rated control supply voltage  $U_s$  at AC 60Hz  
 0 - 0 V  
 Rated control supply voltage  $U_s$  at DC  
 6 - 48 V  
 Voltage type  
 DC  
 Switching frequency  
 100 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  
 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.

NRKH, NRKH7

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

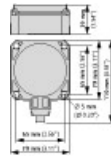
Max. Voltage Rating

48 V DC

Degree of Protection

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

## Dimensions



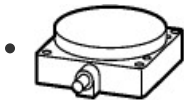
## Product photo



1360PIC-69

Photo

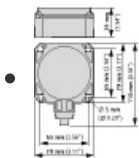
## 3D drawing



1360DRW-37

Line drawing

## Dimensions single product



1360DIM-309

Line drawing

Inductive sensor: E56 series pancake

## Instruction Leaflet

- Inductive sensors: Pancake Series (IL05301008Z)

Asset

(PDF, multilingual)

## Declaration of Conformity

### EU

- Inductive Proximity Sensor, E52 (Cube) and E56 (Pancake) (DA-DC-00002423)

Asset

(PDF)

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