



- German
- English
- Spanish
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



E56ADL40SAD01 - Proximity switch, inductive, 1N/O+1N/C, Sn=40mm, 4L, 6-48VDC, NPN, PNP, cubic 80mm, M12



136234 E56ADL40SAD01

[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
 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
 Flush
 Switching type
 NPN
 PNP
 For connection of:
 Plug-in connection M12 x 1
 Contacts
 N/C = Normally closed
 1 NC
 N/O = Normally open
 1 N/O
 Material
 Insulated material
 Degree of Protection
 IP67

136234 E56ADL40SAD01

Proximity switch, inductive, 1N/O+1N/C, Sn=40mm, 4L, 6-48VDC, NPN, PNP, cubic 80mm, M12

Alternate Catalog No.

E56ADL40SAD01

EL-Nummer (Norway)

4315387

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: Flush, Switching type: NPN, PNP, Plug-in connection M12 x 1, Contacts N/C = Normally closed: 1 NC, Contacts N/O = Normally open: 1 N/O, Material: Insulated material, Degree of Protection: IP67, Standards: IEC/EN 60947-5-2

Technical data

General
Standards
IEC/EN 60947-5-2
Ambient temperature
-25 - +70
Degree of Protection
IP67
Characteristics
Rated switching distance S_n 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 $[U_e]$
10 – 42 V DC
Maximum load current $[I_e]$
< 300 mA
Operating current in the switched state at 24 V DC $[I_b]$
25 mA
Voltage drop at I_e $[U_d]$
2.5 V
Switching Frequency
100 Hz
Mn. load current $[I_e]$
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
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 (EO002714)
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
Concise
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

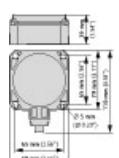
Max. Voltage Rating

48 V DC

Degree of Protection

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

Dimensions



Product photo



1360PIC-69

Photo

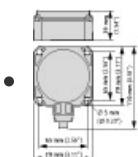
3D drawing



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)

Download-Center

- [Download-Center \(this item\)](#)
Eaton EMEA Download-Center - download data for this item
- [Download-Center](#)
Eaton EMEA Download-Center



[Generate data sheet in PDF format](#)



[Generate data sheet in Excel format](#)



[Write a comment](#)

[Imprint](#) [Privacy Policy](#) [Legal Disclaimer](#) [Terms and Conditions](#)

© 2021 by Eaton Industries GmbH

