



Proximity switch, inductive, 1N/O+1N/C, Sn=70mm, 4L, 6-48VDC, NPN, PNP, cubic 170mm, M12

Part no. E56CDL100UAD01
Catalog No. 136237
Alternate Catalog No. E56CDL100UAD01
EL-Nummer (Norway) 0004315390

Delivery program

Basic function		Inductive Sensors
Product range		E56 Pancake Series
Connection		4-wire
Design (outer dimensions)	mm	171.5 x 171.5 x 67.4
Rated operational voltage	U _e	10 – 42 V DC
Rated switching distance	S _n	100
Type of mounting		Non-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

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	mm
Repetition accuracy of S _n		%
Temperature drift of S _n		%
Switching hysteresis of S _n		%
Rated operational voltage	U _e	10 – 42 V DC
Maximum load current	I _e	mA
Operating current in the switched state at 24 V DC	I _b	mA
Voltage drop at I _e	U _d	V
Switching Frequency		Hz
Min. load current	I _e	mA
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I _r	mA
Switching state display		LED
Operating voltage display		LED
Protective functions		Short-circuit protective device Protection against polarity reversal
Connection		4-wire
Contacts		
N/C = Normally closed		1 NC
N/O = Normally open		1 N/O
Style		
Design (outer dimensions)	mm	171.5 x 171.5 x 67.4
For connection of:		Plug-in connection M12 x 1

Material		Insulated material
Surface finish		PPS

Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	70

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	mm	171.5
Height of sensor	mm	67.4
Length of sensor	mm	171.5
Diameter sensor	mm	0
Mechanical mounting condition for sensor		Not flat
Switching distance	mm	100
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	mA	0
Supply voltage	V	6 - 48
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	6 - 48
Voltage type		DC
Switching frequency	Hz	20
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.		-

Dimensions

