



Proximity switch, inductive, 1N/O, Sn=2mm, 2L, 20-250VAC, M12, insulated material, line 2m

**Part no.** E55CAL12A2  
**Catalog No.** 135816  
**Alternate Catalog No.** E55CAL12A2

### Delivery program

Basic function			Inductive Sensors
Product range			E55 Limit Switch Style Series
Connection			2-wire
Design (outer dimensions)		mm	M12 x 1
Rated operational voltage	$U_e$		20 - 250 V AC
Rated switching distance	$S_n$	mm	2
Type of mounting			Flush
For connection of:			2 m connection cable
<b>Contacts</b>			
N/O = Normally open			1 N/O
Material			Insulated material
Degree of Protection			IP66

### Technical data

#### General

Standards			IEC/EN 60947-5-2
Ambient temperature			-25 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP66

#### Characteristics

Rated switching distance			
Rated switching distance	$S_n$	mm	2
Repetition accuracy of $S_n$		%	10
Temperature drift of $S_n$		%	10
Switching hysteresis of $S_n$		%	20
Rated operational voltage	$U_e$		20 - 250 V AC
Supply frequency			50 - 60
Residual ripple of $U_e$		%	10
Maximum load current	$I_e$	mA	< 150
Operating current in the switched state at 24 V DC	$I_b$	mA	3
Voltage drop at $I_e$	$U_d$	V	10
Switching Frequency		Hz	25
Switching state display		LED	Red
Protective functions			Short-circuit protective device Protection against polarity reversal
Connection			2-wire
Contacts			
N/O = Normally open			1 N/O
Style			
Design (outer dimensions)		mm	M12 x 1
For connection of:			2 m connection cable
Material			Insulated material

### Design verification as per IEC/EN 61439

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

## Technical data ETIM 7.0

Sensors (EG000026) / Inductive proximity switch (EC002714)

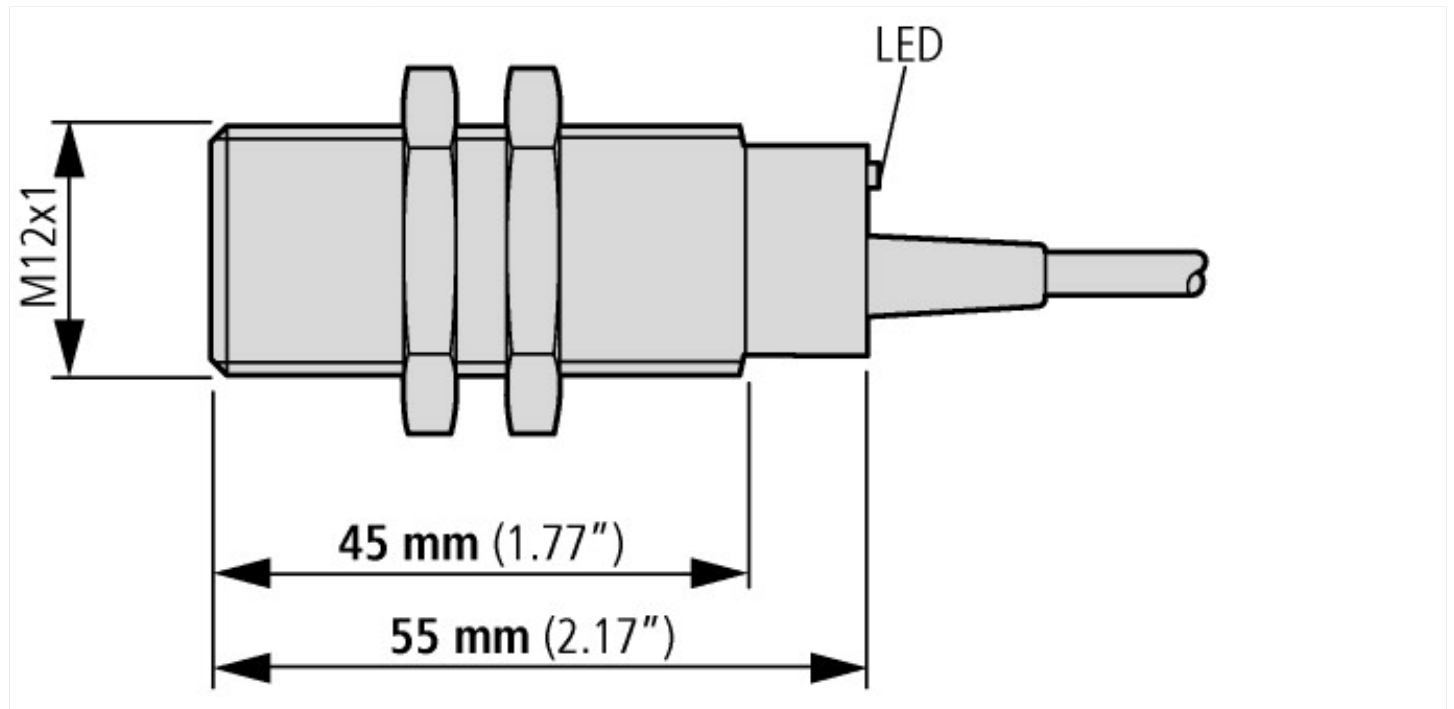
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ec@ss10.0.1-27-27-01-01 [AGZ376015])

Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	55
Diameter sensor	mm	12
Mechanical mounting condition for sensor		Concise
Switching distance	mm	2
Suitable for safety functions		No
Type of switch function		Normally open contact
Type of switching output		Two-wire
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	mA	0
Supply voltage	V	20 - 250
Rated control supply voltage Us at AC 50HZ	V	20 - 250
Rated control supply voltage Us at AC 60HZ	V	20 - 250
Rated control supply voltage Us at DC	V	0 - 0
Voltage type		AC
Switching frequency	Hz	25
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		CE marking
Max. Voltage Rating		250 V AC
Degree of Protection		IEC: IP66; UL/CSA: NEMA 4, 4X, 13

## Dimensions



## Assets (links)

### Declaration of CE Conformity

00003158

### Instruction Leaflets

IL05301005Z2018\_05

## Additional product information (links)

### IL05301005Z E55 Series Barrel-Style Inductive Sensors

IL05301005Z E55 Series Barrel-Style Inductive Sensors [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL05301005Z2018\\_05.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301005Z2018_05.pdf)