

# Proximity switch, capacitive, Sn=25mm, 1 N/C, 3L, PNP, M34, insulated material, line 2m



Part no. E53KBL34T111
Article no. 134821
Catalog No. E53KBL34T111

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	livery	Piu	gran

Basic function			Capacitive sensors
Product range			E53 Capacitive Series
Connection			3-wire
Design (outer dimensions)		mm	34 Ø
Rated operational voltage	U <sub>e</sub>		10 - 30 V DC
Rated switching distance	$S_n$	mm	25
Type of mounting			Flush
Switching type			PNP
For connection of:			2 m connection cable
Contacts			
N/C = Normally closed			1 NC
Material			Insulated material
Degree of Protection			IP65

### **Technical data**

#### General

Ambient temperature  Mechanical shock resistance  Degree of Protection  Characteristics  Rated switching distance Repetition accuracy of S <sub>n</sub> Rated switching distance Repetition accuracy of S <sub>n</sub> Rated switching distance  Repetition accuracy of S <sub>n</sub> Wm Switching hysteresis of S <sub>n</sub> Rated operational voltage Residual ripple of U <sub>0</sub> Maximum load current Switching frequency Switching frequency Switching state display Connection Contacts  N/C = Normally closed Style Design (outer dimensions)  Accompany of the substitution of	delicital			
Mechanical shock resistance Dagree of Protection Characteristics Rated switching distance Rated switching distance Repetition accuracy of S <sub>n</sub>	Standards			IEC/EN 60947-5-2-EMC
Degree of Protection   Pefe	Ambient temperature			-25 - +70
Characteristics           Rated switching distance         Sn         mm         25           Repetition accuracy of Sn         mm         25           Temperature drift of Sn         %         10           Switching hysteresis of Sn         %         20           Rated operational voltage         Ue         10 - 30 V DC           Residual ripple of Ue         %         10           Maximum load current         He         x300           Switching Frequency         Hz         250           Switching state display         LED         Red           Connection         x-wire         x-wire           Contacts         x-wire         x-wire           N/C = Normally closed         1 NC         x-wire           Style         x-wire         x-wire           Design (outer dimensions)         x-wire         x-wire           Fre connection of:         x-wire         x-wire	Mechanical shock resistance		g	
Rated switching distance Rated switching distance Repetition accuracy of S <sub>n</sub> Remperature drift of S <sub>n</sub> Switching hysteresis of S <sub>n</sub> Rated operational voltage Residual ripple of U <sub>e</sub>	Degree of Protection			IP65
Rated switching distance  Repetition accuracy of S <sub>n</sub> Repetition accuracy of S <sub>n</sub> Repetition accuracy of S <sub>n</sub> Remerature drift of S <sub>n</sub> Switching hysteresis of S <sub>n</sub> Rated operational voltage  Residual ripple of U <sub>e</sub> Residual ripple of U <sub>e</sub> Maximum load current  Switching Frequency  Switching state display  Connection  Connection  Contacts  N/C = Normally closed  N/C = Normally closed  Style  Design (outer dimensions)  mm  Ag  To Design (outer dimensions)  mm  Ag  To Design (outer dimensions)  mm  Ag  To Design connection cable	Characteristics			
Repetition accuracy of Sn Temperature drift of Sn Switching hysteresis of Sn Rated operational voltage Residual ripple of Ue Residual ripple of Ue Maximum load current Switching Frequency Switching state display Connection Contacts N/C = Normally closed N/C = Normally closed Style Design (outer dimensions) N	Rated switching distance			
Temperature drift of Sn 10 Switching hysteresis of Sn 20 Rated operational voltage Ue 10-30 V DC Residual ripple of Ue 80 Maximum load current Ie Ie Ie Maximum load current Ie	Rated switching distance	$S_n$	mm	25
Switching hysteresis of Sn Rated operational voltage Residual ripple of Ue Residual ripple of Ue Maximum load current Switching Frequency Switching state display Connection Connection N/C = Normally closed N/C = Normally closed Personnection of:  Maximum load current Ve Residual ripple of Ue NA	Repetition accuracy of $S_n$		%	10
Rated operational voltage  Residual ripple of U <sub>e</sub> Maximum load current  Switching Frequency  Switching state display  Connection  Connection  N/C = Normally closed  N/C = Normally closed  Design (outer dimensions)  For connection of:  10 - 30 V DC  10  N=	Temperature drift of $S_n$		%	10
Residual ripple of Ue Maximum load current Ie MAX Switching Frequency Switching state display Connection Contacts N/C = Normally closed Design (outer dimensions) Fr connection of:  N/C = Normally closed Switching state display  N/C = Normally closed Design (outer dimensions)  N/C = Normally closed Switching state display  N/C = Normally closed N/C = Normally closed Switching state display  N/C = Normally closed N/C = Normally closed Switching Frequency N/C = Normally closed N/C =	Switching hysteresis of $S_n$		%	20
Maximum load current	Rated operational voltage	U <sub>e</sub>		10 - 30 V DC
Switching Frequency Switching State display  Connection Contacts N/C = Normally closed  Design (outer dimensions)  For connection of:  Hz 250  Red  3-wire  1 NC  1 NC  1 NC  2 m connection cable	Residual ripple of $U_{e}$		%	10
Switching state display Connection Contacts N/C = Normally closed Style Design (outer dimensions) For connection of:  LED Red Red  1 NC  3-wire  1 NC  1 NC  2 m connection cable	Maximum load current	l <sub>e</sub>	mA	< 300
Connection 3-wire  Contacts	Switching Frequency		Hz	250
Contacts N/C = Normally closed Style Design (outer dimensions) To connection of:  Design (outer dimensions)	Switching state display		LED	Red
N/C = Normally closed  Style  Design (outer dimensions)  mm 34  2 m connection cable	Connection			3-wire
Style  Design (outer dimensions)  mm  34   2 m connection cable	Contacts			
Design (outer dimensions)  mm  34 ©  For connection of:  2 m connection cable	N/C = Normally closed			1 NC
For connection of: 2 m connection cable	Style			
	Design (outer dimensions)		mm	<sub>34</sub> Ø
Material Insulated material	For connection of:			2 m connection cable
	Material			Insulated material

## Design verification as per IEC/EN 61439

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

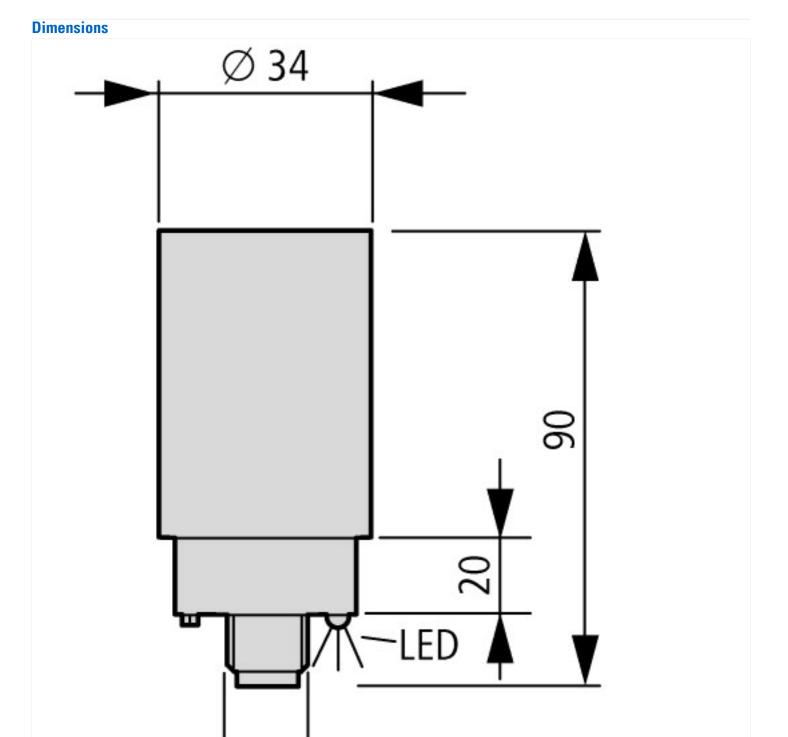
#### **Technical data ETIM 6.0**

Sensors (EG000026) / Capacitive proximity switch (EC002715)

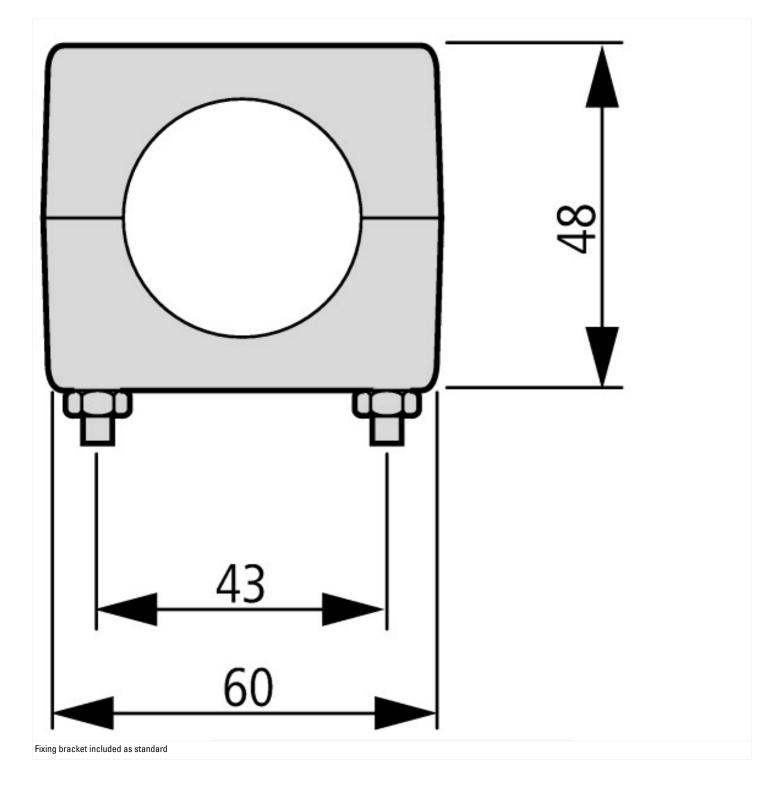
Electric engineering, automation, process control engineering / Binary sensor te	echnology, safetv-rela	lated sen	sor technology / Proximity switch / Capacitive proximity switch
ecl@ss8.1-27-27-01-02 [AGZ377012])			
Width sensor	mı	nm	0
Height of sensor	mı	nm	0
Length of sensor	mı	nm :	80
Diameter sensor	mı	ım :	34
Mechanical mounting condition for sensor			Concise
Switching distance	mı	ım :	25
Suitable for safety functions			No
Type of switch function			Breaker contact
Type of switching output			PNP
ype of electric connection			Cable
Number of semiconductor outputs with signalling function			1
Number of contact energized outputs with signalling function			0
lumber of protected semiconductor outputs			0
lumber of protected contact energized outputs		1	0
ype of actuation			-
ype of interface			None
ype of interface for safety communication			None
Construction type housing			Cylinder plain
coating housing			-
ascadable			No
ategory according to EN 954-1			В
IL according to IEC 61508			None
erformance level acc. to EN ISO 13849-1			None
Max. output current at protected output	m	nΑ	0
Supply voltage	V		10 - 30
Rated control supply voltage Us at AC 50HZ	V	'	0 - 0
Rated control supply voltage Us at AC 60HZ	V		0 - 0
lated control supply voltage Us at DC	V		10 - 30
oltage type			DC
witching frequency	Hz	z	250
Vith monitoring function downstream switching devices			No
Material housing			Plastic
Compression-resistant			No
explosion safety category for gas			None
explosion safety category for dust			None

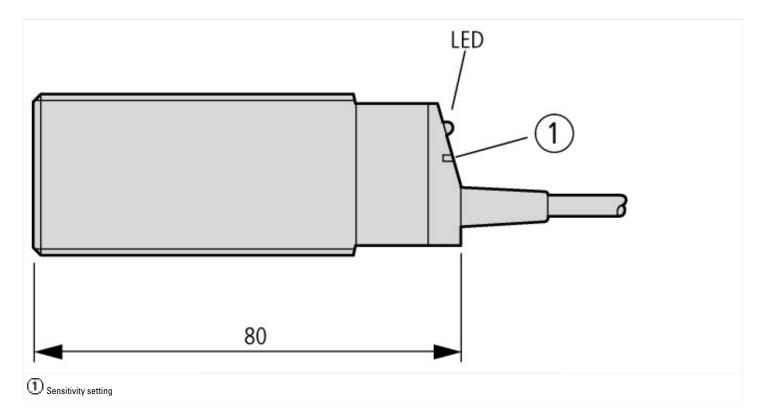
## Approvals

Product Standards	CE marking
Max. Voltage Rating	250 V AC, 30 V DC
Degree of Protection	IEC: IP65; UL/CSA: NEMA 4, 12, 13



M12 x 1





## **Additional product information (links)**

IL05307002Z.pdf E53 Series Capacitive Sensors

IL05307002Z.pdf E53 Series Capacitive Sensors ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL05307002Z2016\_07.pdf