



Proximity switch, inductive, 1N/O/1N/C, $S_n=40\text{mm}$, 2L, 35-250VAC, quad.40, insulated material, screw connection

Part no. E55BLT1F
Catalog No. 135815
Alternate Catalog No. E55BLT1F

Delivery program

Basic function			Inductive Sensors
Product range			E55 Limit Switch Style Series
Connection			2-wire
Design (outer dimensions)		mm	50 x 50 x 128
Rated operational voltage	U_e		35 - 250 V AC
Rated switching distance	S_n	mm	40
Type of mounting			Non-flush
For connection of:			Screw terminal
Contacts			
P = Normally closed/Normally open contact, programmable			1 P
Material			Insulated material
Degree of Protection			IP67

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			IP67

Characteristics

Rated switching distance			
Rated switching distance	S_n	mm	40
Repetition accuracy of S_n		%	10
Temperature drift of S_n		%	10
Switching hysteresis of S_n		%	20
Rated operational voltage	U_e		35 - 250 V AC
Supply frequency			50 - 60
Residual ripple of U_e		%	10
Maximum load current	I_e	mA	< 400
Operating current in the switched state at 24 V DC	I_b	mA	3
Voltage drop at I_e	U_d	V	8
Switching Frequency		Hz	25
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I_r	mA	1.8
Switching state display		LED	Red
Operating voltage display		LED	Green
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
Connection			2-wire
Style			

Design (outer dimensions)		mm	50 x 50 x 128
For connection of:			Screw terminal
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 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 (ec1@ss10.0.1-27-27-01-01 [AGZ376015])			
Width sensor		mm	50
Height of sensor		mm	50
Length of sensor		mm	128
Diameter sensor		mm	0
Mechanical mounting condition for sensor			Not flat
Switching distance		mm	40
Suitable for safety functions			No
Type of switch function			Programmable/configurable
Type of switching output			Two-wire
Type of electric connection			Clamp
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	35 - 250
Rated control supply voltage Us at AC 50HZ		V	35 - 250
Rated control supply voltage Us at AC 60HZ		V	35 - 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: IP67; UL/CSA: NEMA 4, 4X, 6, 12, 13

Dimensions

