

Proximity switch, inductive, 1N/0/1N/C, S_n=15mm, 2L, 35-250VAC, quad.40, insulated material, screw connection



Part no. E55BLT1C
Catalog No. 135812
Alternate Catalog No. E55BLT1C

Delivery program

Basic function			Inductive Sensors
Product range			E55 Limit Switch Style Series
Connection			2-wire
Design (outer dimensions)		mm	40 x 40 x 118
Rated operational voltage	U _e		35 - 250 V AC
Rated switching distance	S _n	mm	15
Type of mounting			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	15
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	40 x 40 x 118
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 8.0

Sensors (EG000026) / Inductive proximity switch (EC002714)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Safety-related proximity switch / Safety-related inductive proximity switch (ecl@ss10.0.1-27-27-24-01 [AKE630014])			
Width sensor		mm	40
Height of sensor		mm	40
Length of sensor		mm	118
Diameter sensor		mm	0
Mechanical mounting condition for sensor			Concise
Switching distance		mm	15
Suitable for safety functions			No
Type of switch function			Programmable/configurable
Type of switching output			2-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
SIL according to IEC 61508			None
Performance level according to 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			
Degree of protection (NEMA)			4X, 6, 13