

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



Part no. E55BLT1F
135815

General specifications		
Product name		Eaton Moeller® series E55 Proximity switch
Part no.		E55BLT1F
EAN		4015081326082
Product Length/Depth		139.7 millimetre
Product height		63.5 millimetre
Product width		88.9 millimetre
Product weight		0.23 kilogram
Certifications		IEC/EN 60947-5-2 CE
Product Tradename		E55
Product Type		Proximity switch
Product Sub Type		None
Product Specification Details		
Actuation type		Metallic Target
Ambient operating temperature - max		70 °C
Ambient operating temperature - min		-25 °C
Category (EN 954-1)		B
Connection type		Screw terminal 2-wire
Degree of protection		IP67 NEMA 4X, 6, 13
Diameter sensor		0 mm
Electric connection type		Clamp
Enclosure material		Plastic
Enclosure material finishing		Other
Enclosure type		Cuboid
Explosion safety category for dust		None
Explosion safety category for gas		None
Functions		Protection against polarity reversal Protection against wire breakage Short-circuit protection
Installation type		Not flat
Interface type		None
LED indicator		Status indication of Switching state: Red LED Status indication of Operating voltage: Green LED
Load current		Max. 400 mA (Ie)
Material		Insulated material
Mounting method		Non-flush mounting
Number of contact energized outputs with signalling function		0
Number of contacts (programmable)		1
Number of outputs (protected contact energized)		0
Number of outputs (protected semiconductor)		0
Number of outputs (semiconductor with signaling function)		1
Operational current (Ib) in the switched state at 24 V DC		3 A
Output current at protected output - max		0 mA
Product category		E55 Limit Switch Style Series
Rated control supply voltage (Us) at AC, 50 Hz - max		250 V
Rated control supply voltage (Us) at AC, 50 Hz - min		35 V
Rated control supply voltage (Us) at AC, 60 Hz - max		250 V

Rated control supply voltage (Us) at AC, 60 Hz - min		35 V
Rated control supply voltage (Us) at DC - max		0 V
Rated control supply voltage (Us) at DC - min		0 V
Rated switching distance (Sn) - max		40 mm
Repeatability		10 %
Residual current		1.8 mA (through the load in the blocked state at 230 V AC and 24 V DC)
Residual ripple		10 % (U#)
Safety performance level (EN ISO 13849-1)		None
Sensor height		50 mm
Sensor length		128 mm
Shock resistance		30 g, Mechanical, Shock duration 11 ms
SIL (IEC 61508)		None
Supply frequency		50 Hz, Input, min. Range 60 Hz, Input, max. Range
Supply voltage - max		250 V
Supply voltage - min		35 V
Switch function type		Programmable/configurable
Switching frequency		25 Hz
Switching hysteresis of Sn		20 %
Switching output type		Two-wire
Temperature drift of sn		10 %
Type		Inductive sensor
Voltage drop (Ud)		8 V
Voltage rating - max		250 V
Voltage type		AC
Width sensor		50 mm

Technical data ETIM 9.0

Sensors (EG000026) / Inductive proximity switch (EC002714)		
Electric engineering, automation, process control engineering / Sensor technology, safety-related sensor technology / Safety-related inductive sensor / Safety-related inductive proximity switch (ecI@ss13-27-27-41-01 [AKE630019])		
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		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 AC 50 Hz	V	35 - 250

Rated control supply voltage AC 60 Hz	V	35 - 250
Rated control supply voltage DC	V	0 - 0
Voltage type		AC
Switching frequency	Hz	25
With monitoring function downstream switching devices		No
Housing material		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