# E55 Limit Switch Style Sensors with Nonmetallic Housings

### **Contents**

Description	Page
E55 Limit Switch Style Sensors with Nonmetallic Housings	
Product Selection	V8-T3-86
Technical Data and Specifications	V8-T3-87
Wiring Diagrams	V8-T3-87
Dimensions	V8-T3-87

# **E55 Limit Switch Style Sensors with Nonmetallic Housings**

#### **Product Description**

These sensors from Eaton's Electrical Sector feature PBT resin housings for high resistance to corrosion. The housing is sized to offer a direct replacement for standard limit switches. The unique sensing head is factory assembled for top sensing, but can be easily converted in the field to any one of four side sensing positions. Models are available with sensing ranges from 15 mm to 40 mm. The sensors can be wired for NO or NC operation.

#### **Features**

- Nonmetallic housing offers excellent resistance to corrosion
- Same form factor and mounting as standard limit switches for easy retrofit
- · Sensor head features five sensing positions (top and all four sides) that can be easily changed in the field
- Long sensing ranges up to 40 mm

#### DANGER

THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A SAFETY DEVICE. This sensor is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safetyrelated use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.

#### **Product Selection**

# E55 Limit Switch Style Sensors

#### E55 Limit Switch



#### **Two-Wire Sensors**

Voltage Type	Sensing Range (Sn)	Shielding	Output	Connection Type	Catalog Number
35–250 Vac	15 mm	Shielded	NO or NC	Terminal wiring	E55BLT1C
	20 mm	Unshielded	<u> </u>		E55BLT1D
	30 mm	<u> </u>			E55BLT1E
	40 mm				E55BLT1F

For the most current information on this product, visit our Web site: www.eaton.com

For Customer Service in the U.S. call 1-877-ETN CARE (386-2273), in Canada call 1-800-268-3578. For Application Assistance in the U.S. and Canada call 1-800-426-9184.

# E55 Limit Switch Style Sensors with Nonmetallic Housings

# **Technical Data and Specifications**

# **E55 Limit Switch Style Sensors**

Description	Specification		
Operating voltage	35–250 Vac		
Maximum load current	400 mA		
Switching frequency	25 Hz maximum		
Leakage current	1.8 mA		
Voltage drop	8V maximum		
Inrush	5 A maximum for 20 ms		
Indicator LEDs	Two LEDs: One lights when power is ON, the other lights when output is ON		
Operating temperature	−13 to 158 °F (−25 to 70 °C)		
Enclosure ratings	NEMA 4, 4X, 6, 12, 13 (IP67)		
Housing material	PBT resin		

# **Wiring Diagrams**

Pin numbers are for reference, rely on pin location when wiring.

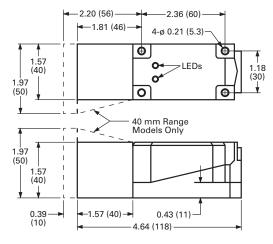
# **E55 Limit Switch Style Sensors**

Operating Voltage	Output	Terminal Models
Two-Wire Sensors		
35–250 Vac ①	NO	1 2 0 Load L2
	NC	L1 1 2 Load L2 0 3 4

# **Dimensions**

Approximate Dimensions in Inches (mm)

# **E55 Limit Switch Style Sensors**



# Note

 $^{\scriptsize \textcircled{1}}$  Switches are shipped as NO configuration. Internal jumpers must be moved to program for NC.