Compact Prewired Limit Switches

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The Cutler-Hammer® E47 Compact Prewired Limit Switch by Eaton's electrical business is designed to be a versatile, slim device for hard to fit applications where sealing integrity is required. The rugged die cast aluminum alloy housing, cable connection and switch mechanism are encapsulated for protection against extreme temperature (-10° to 70°C), contaminants, moisture, shock and vibration. This factory wired (3m) device has NEMA enclosure ratings of 4, 6 and 13, making it suitable for applications such as machine tool, food processing and packaging.

Ratings and Approvals

- cULus
- NEMA 4, 6 and 13
- IEC IP67





Unless otherwise noted, the products contained in this document are not designed or intended for use in human safety applications.

Rugged and Dependable Compact Limit Switch



Product Features

- Rugged aluminum alloy die cast housing
- Sealed construction with enclosure ratings of NEMA 4, 6 and 13
- Prewired with 3m of 18 AWG, AWM 2517, 300V cable
- Stackable ridge for ganged operation

Specifications — **Maximum Ampere Rating**

Voltage	Non-inductive Load (A) Resistive		Inductiv	Inductive Load (A)				Inrush	
			Inductiv	Inductive		Motor		Current (A)	
	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	
125V AC 250V AC	5 5	5 5	3 2	3 2	2.5 1.5	1.3 0.8	20 Max.	10 Max.	
8V DC 14V DC 30V DC 125V DC 250V DC	5 5 4 0.4 0.2	5 5 4 0.4 0.2	5 4 3 0.4 0.2	4 4 3 0.4 0.2	1.5 1.5 1.5 0.05 0.03	1.5 1.5 1.5 0.05 0.03			

NOTES: Inductive load ratings are tested at a power factor 0.4 min. for AC power and a time constant of 7 mS max. for DC power. Inrush current for motor load is 6 times the steady state current.

Specifications

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Description	Specification				
Contacts	1-SPDT (Form C)				
Mechanical Life	10,000,000 operations				
Electrical Life	200,000 operations, 30 operation/min. at rated load				
Operating Speed	30 operations per minute maximum				
Operating Temperature Range	-10° to +70°C (14° to 158°F)				
Storage Temperature Range	-10° to 70°C (14° to 158°F)				
Humidity	95% maximum non-condensing				
Vibration	Malfunction durability, 10 to 55 Hz 1.5 mm double amplitude				
Shock	Malfunction durability, approximately 50G				
Enclosure Ratings	NEMA 4, 6 and 13; IEC IP67				

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**.

Model Selection

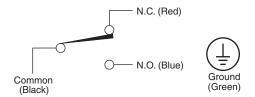
ctuator Type	Operating Forc (Maximum)	Reset Force (Minimum)	Overtravel (Minimum)	Pre-travel	Movement Differential (Maximum)	Operating Position	Catalog Number
Pi	42.3 oz unger (1.2 kg)	15.9 oz (450g)	0.118 inch (3 mm)	0.07 inch (1.8 mm)	0.008 inch (0.2 mm)	0.62 ± 0.04 inch (15.7 ± 1 mm)	E47BCC05
	ealed 63.5 oz unger (1.8 kg)	15.9 oz (450g)	0.118 inch (3 mm)	0.07 inch (1.8 mm)	0.008 inch (0.2 mm)	0.99 ± 0.04 inch (24.9 ± 1 mm)	E47BCC06
Ro	42.3 oz unger (1.2 kg)	15.9 oz (450g)	0.118 inch (3 mm)	0.07 inch (1.8 mm)	0.008 inch (0.2 mm)	1.12 ± 0.04 inch (28.5 ± 1 mm)	E47BCC07
Ro	ealed 63.5 oz (1.8 kg)	15.9 oz (450g)	0.118 inch (3 mm)	0.07 inch (1.8 mm)	0.008 inch (0.2 mm)	1.35 ± 0.04 inch (34.3 ± 1 mm)	E47BCC08
Ro	oss 42.3 oz oss (1.2 kg) unger	15.9 oz (450g)	0.118 inch (3 mm)	0.07 inch (1.8 mm)	0.008 inch (0.2 mm)	1.12 ± 0.04 inch (28.5 ± 1 mm)	E47BCC11
Cr Ro	ealed 63.5 oz (1.8 kg)	15.9 oz (450g)	0.118 inch (3 mm)	0.07 inch (1.8 mm)	0.008 inch (0.2 mm)	1.35 ± 0.04 inch (34.3 ± 1 mm)	E47BCC12
	evel 42.3 oz unger (1.2 kg)	15.9 oz (450g)	0.118 inch (3 mm)	0.07 inch (1.8 mm)	0.008 inch (0.2 mm)	1.12 ± 0.04 inch (28.5 ± 1 mm)	E47BCC13
Ro	20.5 oz ver (580g)	5.3 oz (150g)	40°	25° max.	3°	_	E47BCC15
	obble 5.3 oz ick (150g)	_	_	15° max.	_	_	E47BCC20

Stocked product, typical order quantities guaranteed in stock.

Wiring Diagram

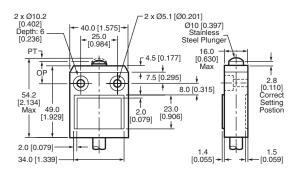
Limit Switches

Compact Prewired

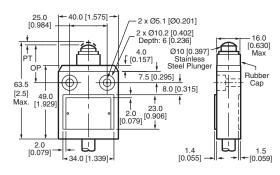


Approximate Dimensions in mm [Inches]

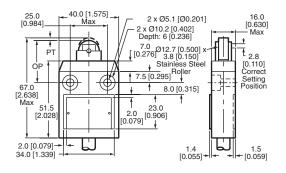
E47BCC05



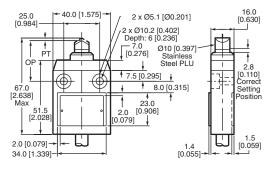
E47BCC06



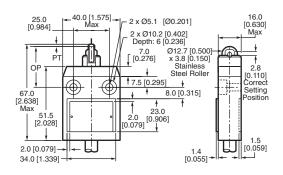
E47BCC07



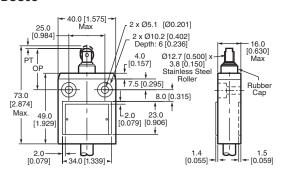
E47BCC13



E47BCC11

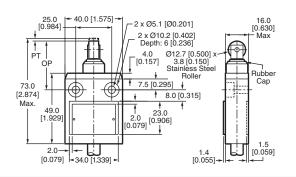


E47BCC08

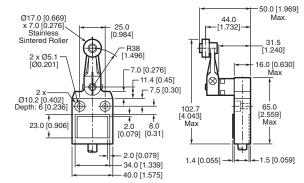


Approximate Dimensions in mm [Inches] (Continued)

E47BCC12



E47BCC15



E47BCC20

