

Operators



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Drawings  
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### Operators

#### Product Description

The Operators presented here are used with Eaton's E50 Plug-In and 6P+ limit switches, as well as our 10316 rotary type limit switches. A wide variety of styles and sizes are available to provide optimum performance for nearly any application.

#### Features

- Wide variety of operator types for rotary and wobble style limit switches
- Rollers and rods available in metal and nonmetal contact surfaces

#### 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 safety-related 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.**

For the most current information on this product, visit our Web site: [www.eaton.com](http://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.

**Rod Type Operators**






For rotary head switches: E50 Plug-In, E50 6P+, and 10316.

**Note:** Only operators with Nylatron rods or rollers should be used with explosion-proof limit switches.

**Operators—Rod Type**

Rod Type	Minimum Required Return Torque <sup>①</sup>	Approximate Dimensions in Inches (mm)			Catalog Number
		A Rod Length (Maximum) <sup>②</sup>	B Rod Diameter	C	
<b>Adjustable Rod</b>					
	Nylon	0.40 in-oz <sup>③</sup>	5.50 (140.0)	0.19 (4.8)	E50KL399
	Metal	0.92 in-oz <sup>③</sup>		0.12 (3.2)	E50KL202
	Metal	2.20 in-oz <sup>③</sup>	8.75 (222.0)	Rod size (square): 0.12 (3.2) x 0.12 (3.2)	E50KL581
	Stainless steel	7.00 in-oz <sup>③</sup>	9.00 (229.0)	0.19 (4.8)	E50KL220
	Bendable steel	5.00 in-oz <sup>③</sup>	12.00 (305.0)	0.12 (3.2)	E50KL226
<b>Clamps for Adjustable Rods (Rod not included)</b>					
Clamp for ...					
0.19 (4.8) diameter rods					E50KL35
0.12 (3.2) diameter rods					E50KL36
0.25 (6.4) diameter rods					E50KL41
<b>Dimensions, see Page V8-T2-87.</b>					

**Operators—Rod Type, continued**

Rod Type	Minimum Required Return Torque <sup>①</sup>	Approximate Dimensions in Inches (mm)				Catalog Number	
		A Rod Length <sup>②</sup>	B Rod Diameter	C	D		
<b>Spring Rod</b>							
	Nylon	3.50 in-oz	—	—	—	E50KL556	
	Stainless steel	2.80 in-oz	—	—	—	E50KL421	
<b>Adjustable Wire</b>							
	Nylon covered wire	1.50 in-oz <sup>③</sup>	—	—	—	E50KL533	
<b>Adjustable Wide Roller Lever</b>							
	Nylatron	4.50 in-oz <sup>③</sup>	—	—	—	E50KL37	
<b>Nylatron Loop</b>							
	Nylatron	0.40 in-oz	6.00 (152.0)	∅: 0.158 (4.0)	—	E50KL142	
<b>Eye Bolt</b>							
	Zinc-plated steel	0.53 in-oz	150.00 (38.1)	∅: 0.1875 (4.8) Loop ID: 0.375 (9.5)	0.52 (13.1)	0.24 (8.6)	E50KL33

**Dimensions, see Page V8-T2-87.**

**Notes**

- <sup>①</sup> **Caution:** When selecting lever, the minimum required return torque of lever should not exceed minimum return force available in operating head as given in operating head specifications.
- <sup>②</sup> Length from the operating shaft axis to tip.
- <sup>③</sup> Applies when lever is extended to the maximum dimension.