

E50 Heavy-Duty Plug-In Switches

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E50 Heavy-Duty Plug-In Switches

Product Description

E50 Modular Plug-In Limit Switch Components from Eaton’s electrical sector are the industry standard with versatility of design and high reliability for low maintenance, installation and inventory costs. Standard Viton gaskets, seals and boots and a zinc die cast enclosure provide exceptional chemical resistance to the common coolants, cleansing agents, and hydraulic fluids found in machine tool, automotive, waste water treatment and other heavy-duty industrial applications. Mounting dimensions accommodate both U.S. and DIN standards for easy retrofit installations. Super bright 24–120 Vac/dc LED indicating light versions simplify setup and troubleshooting operations.

Features

- Modular, plug-in components (head, body and receptacle) provide application flexibility, reduced inventory and less downtime
- Manufactured to take the physical and environmental abuse (including cutting fluids and chemicals) of harsh industrial environments
- Chemical resistant Viton gaskets, seals and boots are standard, and so are captive, posi-drive screws
- The switches have terminal identification on the nameplate for a visual wiring checkout without guesswork. Heads and switch bodies can be replaced without rewiring

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Drawings
Online

- E50 devices can be ordered in separate components or as complete assembled switches
- 600V rating, ridge-topped contacts and wiping action assure continuity even to logic level circuits
- Keyed, four direction head positioning
- Standard 5° pre-travel and 90° total travel
- 24–120 Vac/dc LED and 120 Vac neon indicating lights available
- Rotary heads are field convertible CW, CCW, or both, without special tools
- Epoxy filled, pin connector or pigtail pin connector receptacles available

Standards and Certifications

- UL Listed
- CSA Certified
- IEC.9475.1
- TUV—E9271605E02
- CE (where shown)











⚠ 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

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.


Receptacles

E50 Heavy-Duty Plug-In Switches, Receptacles

	Description	Poles	Conduit Entrance	Cable Length	Catalog Number
Surface Mount 	Surface Mount	Single-pole (5 terminal)	1/2 NPT	—	E50RA
			20 mm	—	E50RA20
		Two-pole (9 terminal)	1/2 NPT	—	E50RB
			3/4 NPT	—	E50RB34
			20 mm	—	E50RB20
Manifold Mount 	Manifold Mount	Single-pole (5 terminal)	—	—	E50RAM
		Two-pole (9 terminal)	—	—	E50RBM
Mini-Connector 	Mini-Connector	Single-pole (5 terminal)	5-pin mini-connector	—	E50RAP5 
				—	E50RAP5-W 
		Two-pole (9 terminal)	9-pin mini-connector	—	E50RBP9 
Micro-Connector 	Micro-Connector	Single-pole (5 terminal)	—	—	E50RAA5 ^①
Pre-Wired Cable 	Pre-Wired Cable	Single-pole (5 terminal)	1/2 NPT	8 ft	E50RAS
				12 ft	E50RAS12
				20 ft	E50RAS20
			20 mm	8 ft	E50RA20S
				12 ft	E50RA20S12
				20 ft	E50RA20S20
		Two-pole (9 terminal)	1/2 NPT	8 ft	E50RBS
				12 ft	E50RBS12
			20 mm	20 ft	E50RBS20
				8 ft	E50RB20S
12 ft	E50RB20S12				
20 ft	E50RB20S20				

Wiring Diagrams, see **Page V8-T2-65**.

Notes

 See listing of compatible connector cables on **Page V8-T2-62**.

^① Model E50RAA5 is not UL listed or CSA certified.