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 heavyduty 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

E50 devices can be ordered in separate components or as complete assembled switches

Online

- 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.947.5.1
- 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 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.

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.

E50 Heavy-Duty Plug-In Switches

E50 Heavy-Duty Plug-In Switches, Operating Heads, continued

Operating Temperature $^{\scriptsize \textcircled{1}}$ Travel to Travel to Force to Minimum With Catalog Total Operate Reset Operate Return Without Cable Description **Pre-wired Cable** Contacts Contacts Travel Contacts Force Number **Top Push Roller** 14° to 250°F 14° to 221°F E50DT3 Spring return 0.040 in 0.020 in 0.280 in 4 lbs 8 oz (-10° to 121°C) (-10° to 105°C)

Top Push Roller



Wobble Head, Spring Return



Wobble Head, Spring Return (requires a wobble operator, see Page V8-T2-80)									
Standard duty	10°	6°	15°	2 in-lbs	2.4 in-oz	14° to 250°F (-10° to 121°C)	14° to 221°F (-10° to 105°C)	E50DW1	
Heavy-duty high strength steel	10°	6°	15°	2 in-lbs	2.4 in-oz	14° to 250°F (-10° to 121°C)	14° to 221°F (-10° to 105°C)	E50DW2	

Switch Bodies

E50 Heavy-Duty Plug-In Switches, Switch Bodies







Two-Pole 2NO-2NC Two-Pole 2NC-1NO Single-Pole 1NO-1NC **Parallel Wired Indicator Light Series Wired Indicator Light Catalog Number Catalog Number** Switch Body Construction ① **Catalog Number** E50SA E50SB Without indicating light ϵ With LED indicating light 24-120 Vac/dc E50SAL E50SBL E50SCL With neon indicating light 120 Vac E50SAN E50SBN Circuit Diagrams, see Page V8-T2-65.

Note

① Indicating lights are supplied from the factory wired as shown in Circuit Diagrams on Page V8-T2-65. However, they can be easily re-connected to terminals 1 and 2 if necessary (SPDT).