2A  EDS and EFD Enclosures
with General Use Snap Switches
Front Operated

Applications:
EDS and EFD enclosures are installed in a rigid metallic conduit system for surface mounting adjacent to or remote from equipment being controlled and are used:
- To prevent arcing of enclosed switch from causing ignition of a specific hazardous atmosphere or atmospheres external to the enclosure.
- In industrial areas such as chemical plants, oil and gas refineries, paint and varnish manufacturing plants, gasoline bulk loading terminals, grain elevators, grain processing industries, coal processing or handling areas, or metal handling or finishing areas where atmosphere may contain hazardous gases and/or dust.
- In non-hazardous areas where sturdy, durable enclosures are required.

Features:
- Small and compact in design.
- Used with snap switches.
- Mounting lugs and taper tapped hubs with integral bushings.
- Large machine screws for fastening covers to bodies.
- Lockout hole for padlock having \( \frac{1}{4} \)" hasp is provided.
- Threaded type shafts and bushings are used to insure flame tightness.

Certifications and Compliances:
- NEC/CEC:
  - Class I, Divisions 1 & 2, Groups B*, C, D
  - Class II, Division 1, Groups E, F, G
  - Class II, Division 2, Groups F, G
  - Class III
- NEMA/EEMAC: 3, 78*CD, 9EFG, 12
- UL Standard: 1203
- CSA Standard: C22.2 No. 30

Standard Materials:
- Bodies and covers – Feraloy® iron alloy
- Shafts – stainless steel
- Shaft bushings – stainless steel

Standard Finishes:
- Feraloy iron alloy – electrogalvanized and aluminum acrylic paint
- Stainless steel – natural

Options:
- Description
- Suffix
  - Two or three gang bodies can be supplied with combinations of devices listed for one gang enclosures – Refer to modular listing, section 4C
  - Class I Group B, NEMA 7B – see listing pages
  - Bodies and Covers: copper-free aluminum
  - Flush wall mounting cover with \( \frac{1}{2} \)" overhang – single gang only – dull black instrument finish

Electrical Ratings:
Complies with U.L. snap switch test requirements as follows:
- Type of Test
- AC-Rated (only) Switch
- Overload
  - Rated Amp. +380%
  - Power Factor .40 – .50
  - 100 cycles, 6 – 10 cycles per minute
- Non-Inductive Endurance
  - 10,000 cycles, 18 – 24 cycles per minute at rated current – .98 min. P.F.
- Inductive Endurance
  - 10,000 cycles, 18 – 24 cycles per minute – .75 – .80 P.F.
- Tungsten Filament Lamp Endurance
  - 10,000 cycles, 6 – 10 cycles per minute at rated current and 120 volts
- Temperature Rise
  - Not to exceed 30°C
- Dielectric Withstand
  - 1500 volts

Dimensions:
In Inches:

Hub Size | Dim. \("h\)" | Dim. \("l\)"
---|---|---
\( \frac{1}{4} \) | \( \frac{1}{8} \) | \( \frac{3}{16} \)
1 | 1 | \( \frac{3}{4} \)

*Class I, Group B: All units listed on this page can be modified for Class I, Group B usage. Add suffix GB to the catalog number. Example: EDS2129-GB. Seals must be installed within \( 1\frac{1}{2} \)" of each conduit opening in Division 1.
# EDS and EFD Enclosures

**with General Use Snap Switches**

**Front Operated**

## Ordering Information:

<table>
<thead>
<tr>
<th>Hub Size</th>
<th>Style</th>
<th>120VAC</th>
<th>277VAC</th>
<th>Dead End Cat. #</th>
<th>Through Feed Cat. #</th>
<th>Replacement Switch</th>
<th>Two Gang Dead End Cat. #</th>
<th>Through Feed Cat. #</th>
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<td>¾</td>
<td>1-pole</td>
<td>20</td>
<td>20</td>
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<td>EDSC2129†</td>
<td>SW5</td>
<td>EDS2229</td>
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*For Class I, Division 1, Group B, add the GB suffix and install seals within 1-½" of conduit openings. Class I, Division 2, Group B is standard and no seals are required.

†ON-OFF standard marking for 1-pole and 2-pole units

‡16A, 125 VAC; 10A, 250 VAC

§See table on pages 694-695 for AC-rated switch information.

■Combinations of switches can be furnished.

♠Purchase from Eaton’s Wiring Devices.

✪Not factory sealed.