EFS Non–Sealed Tumbler Switches

Explosionproof, Dust-Ignitionproof

Malleable Iron Body and Cover. Furnished with Internal Ground Screw.

NEC: Class I, Division 1 and 2, Groups C, D Class II, Division 1 and 2, Groups E, F, G NEMA 7CD, 9EFG

Applications

- Designed to prevent arcing of enclosed switches in ignitable atmospheres during connect and disconnect operation of lighting and light power loads.
- For use in classified areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in:
 - Chemical and petrochemical plants
 - Refineries
 - Other process industries

Features

- Enclosures have external mounting lugs for ease of mounting.
- Smooth, rounded integral bushing in each hub protects conductor insulation
- Enclosures furnished with internal ground screw.
- 20 Amp and 30 Amp units available for use with 120-277 Vac.
- Smooth ground mating surfaces assure flame-tight joint between cover and mounting enclosure.
- Stainless steel hex head cap screws for attaching cover to mounting enclosure.
- Choice of front-operating or side rocker arm handle-each may be locked in ON or OFF position.
- Each handle has close-tolerance threaded stainless steel shaft to meet explosionproof requirements.
- Enclosures furnished with internal ground screw.

Options

- 1- or 2-gang copperfree (4/10 of 1% max.) aluminum bodies and covers available. Add suffix - A.
- NPBRKT nameplate mounting bracket to make circuit description/identification easy.
 - Pre-drilled holes in bottom of bracket allow direct mounting to control stations with existing cover bolts.
 - Pre-drilled holes in middle of bracket allow mounting of customer's circuit identification nameplate; epoxy glue may also be used for mounting (phenolic nameplate not included).
 - Bracket eliminates costly field installation of drilling and tapping to accommodate circuit identification nameplate.
 - Brackets fit side-by-side on 2-, 3- and 4-gang boxes and 3-devices.

Standard Materials

- · Body and cover: malleable iron
- Handle: nylon 6/6
- Optional nameplate mounting bracket: corrosion resistant stainless steel

Standard Finishes

Tumbler switch body: triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat

NEC Certifications and Compliances

- UL Standards: UL 894, UL 1203
- UL Listed: E10523, E81751

Ordering Information for "Custom" Units

- · Devices, covers and bodies may be ordered separately so that a different EFS switch may be used in each gang.
- Order components separately as follows:
 - (1) select body catalog number,
 - (2) select cover catalog number, and







Rocker Arm Operated

Illustrated Features





Handles may be locked in ON or OFF position

(3) select switch or switch assembly catalog number (1-pole, 2-pole, 3-way or 4-way available in listings).

How to Order Hub Arrangements

Simply send sketch indicating sizes and locations for brazed hubs on body or bodies selected from catalog listings. Orient sketch so that cover opening faces front and mounting lugs face upward and downward (box wall opposite cover should be referred to as the back of box).

Bodies and Hubs Available

- Tumbler switches may be ordered in single thru five gang deep malleable iron blank bodies with brazed hubs as specified at
- Tumbler switches may be ordered with tandem malleable iron boxes with additional brazed hubs as specified.
- Standard malleable iron single and 2-gang tumbler switches may be ordered with additional brazed hubs as specified.
- Single and 2-gang tumbler switches may be ordered with aluminum boxes with additional brazed hubs as specified.

Related Products

• For classified-location push button, pilot light and selector switch control stations, see EFD/EFDB and EDS Control Stations and Pilot Lights.



EFS Non-Sealed Tumbler Switches

Front Operated. Explosionproof, Dust-Ignitionproof Malleable Iron Body and Cover. Furnished with Internal Ground Screw.

NEC: Class I, Division 1 and 2, Groups C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 7CD, 9EFG

	Hub Size		Catalog Number ①	
	(Inches)	Switch	Dead-End	Feed-Thru
ang				
	20 Amp — 120-2	277 Vac ②		
Applieta (1/2	1-Pole	EFS150-F1	EFSC150-F1
	1/2	2-Pole	_	EFSC150-F2
	1/2	3-Way	EFS150-F3W	EFSC150-F3W
	1/2	4-Way	EFS150-F4W	EFSC150-F4W
	3/4	1-Pole	EFS175-F1	EFSC175-F1
Dead-End	3/4	2-Pole	EFS175-F2	EFSC175-F2
	3/4	3-Way	EFS175-F3W	EFSC175-F3W
	3/4	4-Way	EFS175-F4W	EFSC175-F4W
	30 Amp − 120-277 Vac ③			
	3/4	1-Pole	EFS175-F13	EFSC175-F13
	3/4	2-Pole	EFS175-F23	EFSC175-F23
Feed-Thru				
ang				
	20 Amp — 120-2	277 Vac ②		
Applitude Applit	1/2	1-Pole	EFS250-F1	EFSC250-F1
	1/2	2-Pole	_	EFSC250-F2
	1/2	3-Way	_	EFSC250-F3W
	1/2	4-Way	_	EFSC250-F4W
	3/4	1-Pole	EFS275-F1	EFSC275-F1
Dead-End	3/4	2-Pole	_	EFSC275-F2
Applitud Applitud	3/4	3-Way	_	EFSC275-F3W
	3/4	4-Way	_	EFSC275-F4W
	1	2-Pole	EFS210-F2	EFSC210-F2
	1	3-Way	EFS210-F3W	EFSC210-F3W
	1	4-Way	EFS210-F4W	EFSC210-F4W
	30 Amp — 120-2	277 Vac ③		
Feed-Thru	3/4	1-Pole	EFS275-F13	EFSC275-F13
Feed-Thru				
Feed-Thru	3/4	2-Pole	_	EFSC275-F23

① For aluminum backbox and cover, add suffix -A.



② 20 Amp — 1 HP at 120 Vac and 2 HP at 240 Vac.

^{3 30} Amp - 2 HP at 120 Vac or 240 Vac.