

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
Class III

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



Front Operated



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 any location.
- 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*.



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Switch Covers and Switches. Explosionproof, Dust-Ignitionproof

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	Switch Type	Catalog Number			
		20 Amp, 120–277 Vac ①		30 Amp, 120–277 Vac ②	
		Malleable Iron	Aluminum	Malleable Iron	Aluminum
 Front Cover	1-Pole	EFKF12Q	EFKF12AQ	EFKF12Q	EFKF12QA
	2-Pole	EFKF12Q	EFKF12AQ	EFKF12Q	EFKF12QA
	3-Way	EFKF34WQ	EFKF34WAQ	EFKF34WQ	EFKF34WQA
	4-Way	EFKF34WQ	EFKF34WAQ	—	—
 Rocker Cover	1-Pole	EFKR12Q	—	EFKR12Q	—
	2-Pole	EFKR12Q	—	EFKR12Q	—
	3-Way	EFKR34WQ	—	EFKR34WQ	—
	4-Way	EFKR34WQ	—	—	—
 Non-Factory Sealed Switch	1-Pole	EFSFR1Q	—	EFSFR13Q	—
	2-Pole	EFSFR2Q	—	EFSFR23Q	—
	3-Way	EFSFR3WQ	—	EFSFR3W3Q	—
	4-Way	EFSFR4WQ	—	—	—


Appleton

CONTROLS: NEC/CEC EXPLOSIONPROOF CONTROL STATIONS AND SWITCHES

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

② 30 Amp Switches 2 HP at 120 Vac or 240 Vac.