AFU and AFUX conveyor belt control switches

Cl. I, Div. 1 & 2, Groups C, D Cl. II, Div. 1, Groups E, F, G Cl. II, Div. 2, Groups F, G CI. III NEMA 3, 4, 7CD, 9EFG

Explosionproof **Dust-ignitionproof** Raintight Wet Locations

Applications:

AFU and AFUX conveyor control switches are used:

- · As emergency or normal "STOP" switch for conveyor lines, cranes, unloaders, bulk handling systems and similar equipment
- In steel mills, mining and ore and coal handling operations, automotive and other assembly lines, warehouses, loading docks and various process industry
- · In the control circuit of magnetic motor starters to shut down motor-driven conveyors or other machinery when switch is actuated

AFU series complies with requirements for use in Class II areas having combustible dusts that may or may not be electrically

AFU series are also gasketed for use in hose down areas even when combustible dusts are present.

AFUX series complies with requirements for use in NEC Class I areas which are hazardous due to the presence of flammable vapors or gases. AFUX series also complies with requirements for use in NEC Class I areas which are hazardous due to the presence of flammable vapors or gases. AFUX series also complies with NEC requirements for use in Class II hazardous areas, or for use in NEC hazardous areas classified simultaneously as Class I and Class II.

Features:

- · Furnished with one or two end units, each containing 2-NO and 2-NC contact arrangements
- · Precision switches provide maintained contact (switches have a snap action mechanism)
- Multiple conduit hubs (AFU: two 1" AFUX: three 1"); cast mounting lugs on 11/2" centers permit attachment to the web of a standard 3" angle iron
- In installation, the actuating line or cable is connected from a fixed point to the loop on the end unit. A pull on the line of the required operating force and with a total movement of ½"actuates the plunger, opens the switch and trips the red painted in the line of the reduced which looks the indicating arm forward, which locks the plunger in the actuated (switch open) position. Returning the indicating arm to its normal position resets the mechanism. A typical installation would include single end switch units at each end of the conveyor with double end switch units between.
- · Depending on the size and length of line, supports at properly spaced intervals may be necessary to ensure that the line or cable weight alone will not actuate switch
- Standard design allows for slack protection to be activated or deactivated based on customer preference
- Addressable module allows for instant communication to identify emergency

Certifications and compliances:

AFU:

NEC/CEC:

- Class II, Division 1, Groups E, F, G
- · Class II, Division 2, Groups F, G
- Class III
- Encl. 3, 5
- NEMA 3, 4, 9EFG
- IP66

UL standard:

UI 698

CSA standard:

• C22.2 No. 30

AFUX:

NEC:

- Class I, Divisions 1 & 2, Groups C, D
- · Class II, Division 1, Groups E, F, G
- Class II, Division 2, Groups F, G
- Class III
- NEMA 3, 7CD, 9EFG
- IP65

UL standards:

- UL698
- cUL

Electrical ratings:

 Control circuit switch – 15A, 600 VAC max

AFU0333-50 single end left



AFU0333-66 double end

Standard materials:

- Enclosure Feraloy iron alloy
- Plunger stainless steel
- Loop bronze
- Indicating arm steel

Standard finishes:

- Feraloy iron alloy electrogalvanized and aluminum acrylic paint
- Steel electrogalvanized with chromate finish (red acrylic paint on indicating arm)
- Bronze natural

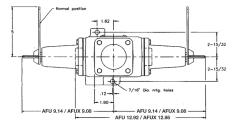
Options:

Description S	Suffix
Corro-free external epoxy powder coat	S752
Copper-free aluminum housing with external epoxy powder coatSA \$	S752
Communication: internal addressable module	AST
Available with AFU only	

Ordering information:

	Maximum weight of unsupported line or	Total operating force required (lbs.)	Contact arrangements with 2-NO, 2-NC in each end unit	
	cable without actuating switch (lbs.)		Cat. # AFU	Cat. # AFUX
Single end left	15	25	AFU0333 50	AFUX0333 50
Single end left	25	50	AFU0333 60	AFUX0333 60
Single end right	15	25	AFU0333 05	AFUX0333 05
Single end right	25	50	AFU0333 06	AFUX0333 06
Double end	15	25	AFU0333 55	AFUX0333 55
Double end	25	50	AFU0333 66	AFUX0333 66

Dimensionse (in inches):



- A galvanized steel aircraft cable, supported every 10' is recommended.
- BDimensions are approximate, not for construction purposes.

