



# Model 16-1 Conveyor Belt Alignment Switch



Our Model 16 conveyor belt alignment switch prevents conveyor belt run-off! Decreases downtime and increases production time.

## FEATURES:

The switch is designed especially for bulk handling conveyor applications, makes sure that belts are tracking properly, prevents costly downtime and unnecessary maintenance expenses. Two switches are positioned close to the belt, one on each side, so that any undesirable side-to-side motion will contact a switch roller. The roller "gives" just enough to shut down the system. Thus, conveyor damage and serious downtime are eliminated.

## INSTALLATION INSTRUCTIONS:

Model 16-1 units are always used in pairs with one placed on each side of the conveyor belt, usually near the head end of the conveyor. They may also be placed at the tail pulley and selected points along longer or high speed conveyors. The unit should be mounted on supports so that the roller is perpendicular to the conveyor belt at its mid-point. The units could be mounted about 1" from the belt, eliminating false signals but protecting the belt against wide deviations.

The micro switch can be wired to give warning signals or it can be connected directly into the motor starter circuit to stop a conveyor. The roller moves approximately 1/4" to actuate the micro switch.

## TECHNICAL INFORMATION:

### ELECTRICAL RATINGS:

**MODEL 16-1:** 20 amp @ 125, 250 or 480 VAC • 1 hp. @ 125 VAC • 2 hp. @ 250 VAC • 1/2 amp @ 125 VDC • 1/4 amp @ 250 VDC

**MODEL 16-2:** 10 amp @ 125 or 250 VAC • 0.3 amp @ 125 VDC • 0.15 amp @ 250 VDC

**MODEL 16-1X:** 10 amp @ 125, 250 or 480 VAC • 1/2 amp @ 125 VDC • 1/4 amp @ 250 VDC

**MODEL 16-2X:** 10 amp @ 125 or 250 VAC • 0.3 amp @ 125 VDC • 0.15 amp @ 250 VDC

## ORDERING INFORMATION:

### MODEL 16-1

One single pole double throw dust and weather tight micro switch. USE: conveyor shut-off, wt. 18 lbs. Meets NEMA 1, 3, 4 and 13.

### MODEL 16-2

One double pole double throw dust and weather tight micro switch. USE: conveyor shut-off and alarm or computer interface. Wt. 18 lbs. Meets NEMA 1, 3, 4 and 13.

### MODEL 16-1X

One single pole double throw explosion proof micro switch. USE: explosion proof conveyor shut off. Wt. 21 lbs. Meets NEMA 7 class 1 group C & D, NEMA 9 class II groups E, F & G.

### MODEL 16-2X

One double pole double throw explosion proof micro switch. USE: explosion proof conveyor shut-off and alarm or computer interface. Wt. 21 lbs. Meets NEMA 7 class I groups B, C & D, NEMA 9 class II groups E, F & G.

## SPECIAL MODEL 16H FOR VERTICAL BELTS . . . .

A special model 16 can be furnished for sensing deviations in belts running vertically, for instance, bucket elevators, etc. For these applications model 16 has a horizontal rather than vertical roller. To order this model please add "H" to model number (**16H**), no additional charge.

## OPTIONS:

**BREAKAWAY MOUNT:** Designed especially for high speed conveyors. This new feature allows the switch to perform its job of shutting down the system, but automatically gets it out of the way if a high speed belt does run off before stopping. Automatically returns to unactuated position when belt is realigned.

**OPTIONAL "EXTRA" SWITCH:** Use this switch when roller activated micro switch is used as an alarm and then this "extra" switch is used for shut off.

## BREAKAWAY MOUNT

(no optional "extra" switch)

### "EXTRA" SWITCH

Dust and weather tight (single pole double throw) 10 amp, NEMA 1, 3, 4, 6 and 13.

### "EXTRA" SWITCH

Explosion proof, (signal pole double throw) 10 amp explosion proof NEMA 7 & 9.

## SUPPORT BRACKET

Not used with breakaway mount.

PC CONVEYOR SAFETY STOP SWITCH

SS CABLE OPERATED SAFETY STOP SWITCH

MODEL 16 BELT ALIGNMENT SWITCH

MODEL SRC SPEED RESPONSIVE SWITCH

FLOW SWITCH

BRUSH TYPE CONVEYOR BELT CLEANER

COIL SPRING CONVEYOR BELT CLEANER

RUBBER WIPER BLADE BELT CLEANER

PLOW TYPE CONVEYOR BELT CLEANER

CONVEYOR HOODS

BIN AERATORS

TERMS AND CONDITIONS