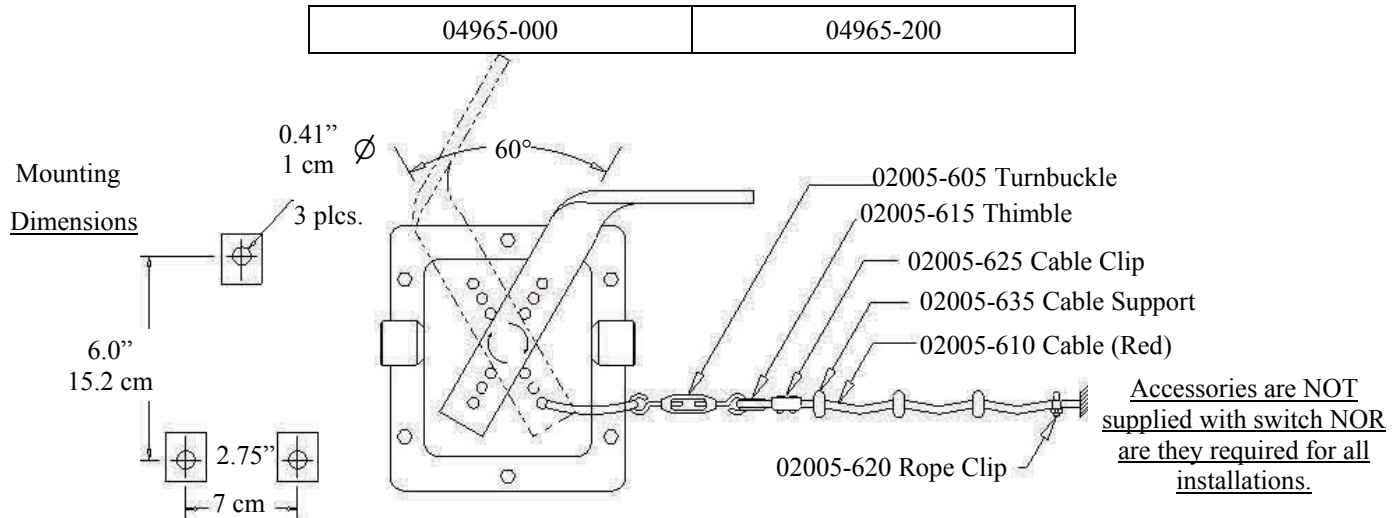


**SET-UP / INSTALLATION INSTRUCTIONS**  
for EXPLOSION RATED SLACK CABLE SINGLE / BI-DIRECTIONAL SWITCHES



Since every installation is unique and separate, the following instructions can be considered flexible. There are some basic switch setup procedures that must be observed and they are indicated by the symbol (➤). The balance of the suggestions and information is subject to change to accommodate those most familiar and responsible for the installation.

**INSTALLATION:**

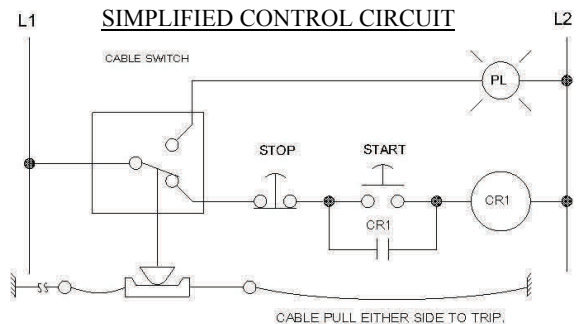
1. Observe all SAFETY REQUIREMENTS and PROCEDURES during installation, set-up and running.
2. N.E.C. and local wiring codes MUST be followed at all times.
3. The cable switch MUST be mounted on a flat surface! (Recommend 3/8-16 Bolts torque to ~16 ft./lbs. ~221 cm-kg)
4. Notice: cover screws MUST be torqued to 12 ft.-lbs. each, & conduit entries must be sealed to meet explosion ratings.
5. The first cable support SHOULD be located 6 to 12 in. (15 to 30 cm) from the switch. (see drawing on other side)
6. The first cable support SHOULD be located so that the cable is aligned with the switch shaft within 5 degrees.
7. It is recommended that the balance of the cable supports be spaced at intervals NOT exceeding 10 feet (~3m). Supports at properly spaced intervals are necessary to ensure that the cable weight will NOT affect switch operation.
8. The max. recommended cable length is 100 feet (30.48 m) in each direction and SHOULD be as straight as possible.
  - NOTE: 1. Wiring SHOULD be through the motor control circuit. (See reference diagram below)
  - 2. TWIST WIRES TOGETHER BEFORE INSERTING IN TERMINAL (ENROULEZ LES FILS ENSEMBLE AVANT LES INTRODUITE DANS LA BORNE.).

**SET-UP and USE:**

- 1. Secure (2 cable clamps per end are recommended) and adjust the SLACK cable length in either or both directions so that there is sufficient “droop” or “swale” in the cable between cable supports.
- 2. Press and turn the flag to reset switch if latched.
- 3. Pull the trip cable on either side of the switch to test and assure that the switch is functioning properly. Reset and test other side where applicable.
- 4. After applying control circuit power then repeat step #(s) 2 & 3.
- 5. NOTE: All cable material will stretch with use and/or temperature variations. If the switch is set-up during extreme conditions a re-adjustment will be necessary to ensure proper switch function.

**MAINTENANCE:**

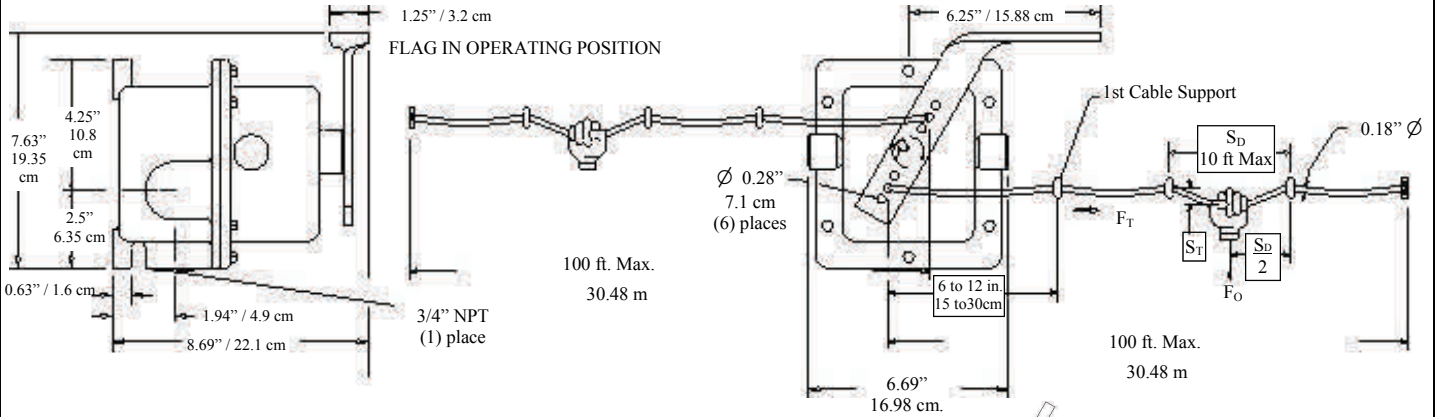
1. Regular Preventive Maintenance inspections are recommended.
2. Some conditions to watch for are:
  - a. Proper trip/reset tensions and slack within the trip cable.
  - b. Physical damage to the device.
  - c. Physical damage to the cable.
  - d. Frayed wiring.
  - e. Loose cable connections.
  - f. Any loose components.
  - g. Any worn components.
3. If other assistance is desired please contact the factory.



All wiring/components provided by user.

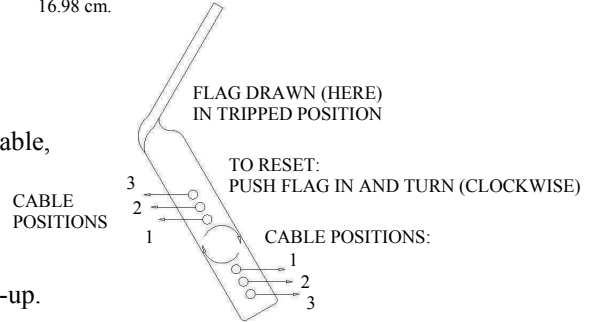
**REES, Inc. Fremont, IN 46737 260-495-9811 FAX 260-495-2186 www.reesinc.com**

**SPECIFICATIONS / APPROVALS**  
for EXPLOSION RATED SLACK CABLE SINGLE / BI-DIRECTIONAL SWITCHES



- Cable(s) should be slack when installed properly and not pulled.
- $F_T$  = The value of force, along the cable, which trips the switch.
  - $F_O$  = The value of force, applied by the operator perpendicular to the cable, which trips the switch.
  - $S_D$  = The distance between the cable supports.
  - $S_T$  = The distance the cable is deflected at the time of tripping.

\*\*  $S_T$  is in addition to any slack "droop" required for set-up.



Catalog Number	Contact Arrangement	Cable Position	$F_T$ Trip Force	$S_D = 5 \text{ ft. / 1.5 m}$		$S_D = 10 \text{ ft. / 3.0 m}$	
				$F_O$	$S_T$ **	$F_O$	$S_T$
04965-000	1 (NO / NC) SPDT	1	40 lb. / 18.1 kg	20 lb. / 9.1 kg	7.7 in. / 19.6 cm	15 lb. / 6.8 kg	10.8 in. / 27.4 cm
		2	28 lb. / 12.7 kg	14 lb. / 6.3 kg	9.2 in. / 23.2 cm	10.5 lb./ 4.8 kg	12.9 in. / 32.8 cm
		3	20 lb. / 9.1 kg	10 lb. / 4.5 kg	10.2 in. / 25.8 cm	7.5 lb. / 3.4 kg	14.3 in. / 36.3 cm
04965-200	2 (NO / NC) SPDT	1	40 lb. / 18.1 kg	20 lb. / 9.1 kg	7.7 in. / 19.6 cm	15 lb. / 6.8 kg	10.8 in. / 27.4 cm
		2	28 lb. / 12.7 kg	14 lb. / 6.3 kg	9.2 in. / 23.2 cm	10.5 lb./ 4.8 kg	12.9 in. / 32.8 cm
		3	20 lb. / 9.1 kg	10 lb. / 4.5 kg	10.2 in. / 25.8 cm	7.5 lb. / 3.4 kg	14.3 in. / 36.3 cm

**WARNING—DANGER**

These products should only be used where point-of-operation guarding devices have been properly installed & maintained so that appropriate OSHA and ANSI B11.1 regulations & standards are met. Misapplication of the products on machinery lacking effective point-of-operation safeguards can cause serious injury to the operator of that machinery.

UL listed (File E327580);  
 These switches comply with: UL-1203;  
 Elect. Ratings: 20 A: 125, 250, or 480 VAC;  
 10 A: 125 VAC "L" (tungsten filament lamp load);  
 1 HP: 125 VAC; 2 HP: 250 VAC  
 ½ A: 24 VDC; ½ A: 125 VDC; ¼ A: 250 VDC;

CSA certified (245842 - 2130218);  
 CSA—C 22.2 No. 14, No. 25, & No. 30;  
 Explosion Rated: NEMA Type 7—Class I, Groups C & D;  
 UL / NEMA Type 9 Class II, Groups E, F, & G for Hazardous Locations  
 Operating Position: Can be mounted in any position.

**AVAILABLE ACCESSORIES:**

02005-605	02005-610	02005-615	02005-620	02005-625	02005-635	01004-055
Turnbuckle Tension Adj.	Cable, Steel	Thimble, Strain Relief	Rope Clip Standard	Cable Clip Optional	Eye Bolt Cbl. Support	Mounting Bracket