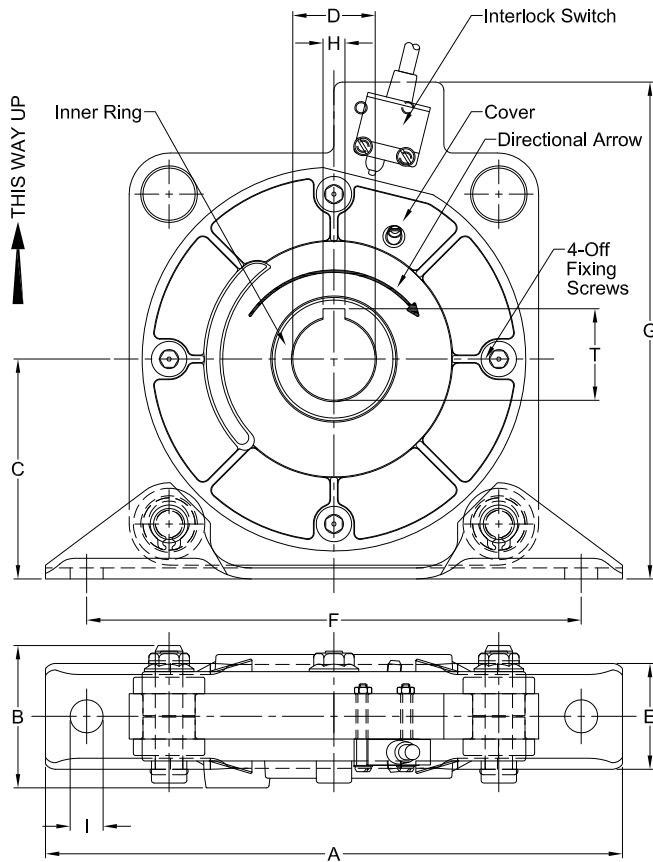


General Arrangement (Model Shown: TC 1/2)

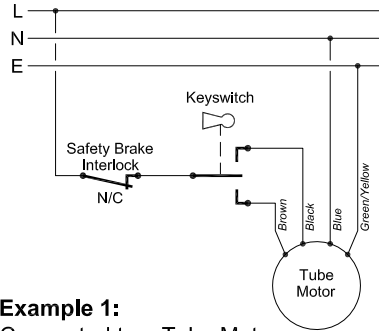


Dimensions

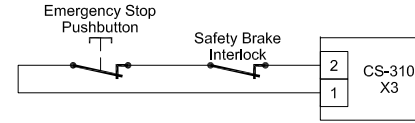
| Model | A | B | C | D _{H7} | E | F | G | H _{J8} | I | T |
|-----------|-----|-----|-----|-----------------|------|-----|-----|-----------------|----|------|
| TC 1/2 | 210 | 50 | 80 | 30 | 38.5 | 180 | 181 | 8 | 12 | 33.3 |
| TC 2/3 | 260 | 57 | 101 | 40 | 45 | 230 | 227 | 12 | 14 | 43.3 |
| TA 2/3-RD | 260 | 50 | 100 | 40 | 45 | 230 | 225 | 12 | 14 | 43.3 |
| TS 4-RD | 340 | 78 | 150 | 50 | 56 | 300 | 285 | 14 | 22 | 53.5 |
| TS 5-RD | 390 | 90 | 180 | 65 | 88 | 340 | 332 | 18 | 22 | 69.4 |
| TS 6-RD | 470 | 115 | 220 | 80 | 111 | 420 | 415 | 22 | 26 | 85.4 |

IMPORTANT: Ensure that the brake is absolutely vertical, with the directional arrow at the top of the unit as shown opposite. Ensure directional arrow is indicating CLOSE direction.

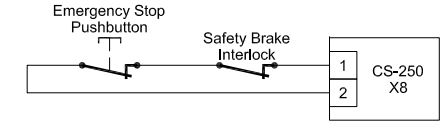
Typical Safety Brake Connections



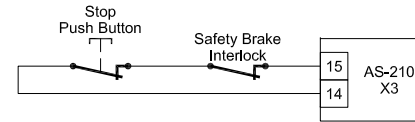
Example 1:
Connected to a Tube Motor



Example 2: CS-310 Connection
See Drawing No. LC-3053 for full details.



Example 3: CS-250 Connection
See Drawing No. LC-3052 for full details.



Example 4: AS-210 Connection
See Drawing No. LC-3060 for full details.

Mounting Instructions

1. The safety brake MUST be installed on the opposite side to the drive, with the Directional Arrow pointing in the Closing direction of the door.
2. Ensure that the safety brake is centrally fitted to the barrel, as any eccentric movement will cause the safety brake to actuate.
3. Ensure the drive chains are properly tightened to ensure a smooth start, thus avoiding causing the safety brake to be activated.
4. To ease installation of the safety brake, use lubricant. Never use force when fitting the safety brake.
5. Check that the drive torque at the barrel will not exceed the capacity of the safety brake.
6. If the safety brake is supplied with an interlock switch, ensure that it is connected and operational.

Visual Inspection

Once installed, check that the fixing screws are properly tightened and ensure that the interlock switch is operational.

Performance Checks

Check the safety brake by ensuring that the drop noise of the catch rolls is audible during both the forward & backward door motion.

Adjustment after Accidental Activation

Type: TC 1/2 & TC 2/3

Loosen the fixing screws and rotate the cover section until the screws are in a vertical and horizontal position.

Type: TA 2/3-RD

Loosen the locking screw at the top of the brake & the four bolts holding the casing. Turn the cover section, together with the inner ring, until the mark "Oben" is positioned at the top of the unit. Re-tighten the locking screw and the four bolts to the correct torque (See Note below).

Types: TS 4-RD, TS 5-RD & TS 6-RD

These units are constructed so that they block when they are not in the correct position. Therefore, loosen the fixing screws and rotate the cover section, together with the inner ring, as far as possible. Re-tighten the fixing screws with a torque screwdriver.

Note:-

Ensure the casing does not come apart and that the directional arrow is positioned at the top of the unit as shown overleaf.

Then tighten the fixing screws with a torque screwdriver, ensuring that the correct adjustment is achieved in relation to the table below.

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Title:-

SAFETY BRAKE DETAILS

Stuart Rd, Manor Park, Runcorn, Cheshire, WA7 1TS

| | |
|----------------------|---------------------|
| Drawing No:- LC-1577 | Page No:- 1 OF 2 |
| Revision No:- R | Rev Date:- 30/09/16 |
| Drawn By:- C.J.W. | Date:- 18/08/99 |
| Checked By:- A.M. | Appr' By:- S.L. |

Load Capacity Chart for Safety Brakes

| Type | TC 1/2 | TC 2/3 | TA 2/3 - RD | TS 4 - RD | TS 5 - RD | TS 6 - RD |
|---|--------------------------|------------|-------------|------------|------------|------------|
| Stock Code | 29-0139 | 29-0138 | 29-0153 | 29-0155 | 29-0156 | 29-0157 |
| Max. Torque (Nm) | 365 | 542 | 552 | 1017 | 1892 | 3484 |
| Max. Intercept/Check Moment (Nm) | 1444 | 1863 | 1253 | 3509 | 8230 | 17768 |
| Unit Weight (Kg) | 3.4 | 7.5 | 8 | 21 | 34 | 68 |
| Torque Value of Fixing Screws (Nm) | 20 | 35 | 37 | 60 | 50 | 90 |
| Certificate No. | TorFV5/057 | TorFV5/057 | TorFV5/074 | TorFV3/015 | TorFV3/016 | TorFV3/017 |
| Max. Operating Speed (min ⁻¹) | 22 | 22 | 22 | 18 | 12 | 10 |
| Tube Ø | Max. Door Weight in KG's | | | | | |
| 101,6 x 3,6 | 460 | | | | | |
| 108,0 x 3,6 | 450 | | | | | |
| 127,0 x 4,0 | 425 | | 660 | | | |
| 133,0 x 4,0 | 415 | 500 | 640 | | | |
| 139,7 x 4,5 | 405 | 490 | 600 | | | |
| 159,0 x 4,5 | 375 | 455 | 580 | | | |
| 168,3 x 4,5 | 360 | 425 | 560 | | | |
| 178,0 x 5,0 | 340 | 420 | 500 | 930 | | |
| 193,7 x 5,4 | 325 | 390 | 470 | 900 | | |
| 219,1 x 5,9 | 290 | 355 | 440 | 800 | | |
| 229,0 x 5,9 | 275 | 340 | 420 | 760 | | |
| 244,5 x 5,9 | 250 | 310 | 370 | 720 | | |
| 267,0 x 7,1 | 220 | 290 | 330 | 650 | 1230 | |
| 298,5 x 8,0 | 190 | 260 | 290 | 560 | 1115 | |
| 323,9 x 8,0 | | 240 | | 500 | 1025 | |
| 355,6 x 8,0 | | | | 460 | 950 | 1735 |
| 368,0 x 8,0 | | | | 440 | 920 | 1685 |
| 406,4 x 8,8 | | | | 400 | 830 | 1525 |
| 419,0 x 10,0 | | | | 385 | 800 | 1480 |
| 457,2 x 10,0 | | | | 345 | 745 | 1370 |
| 508,0 x 11,0 | | | | 310 | 670 | 1235 |
| 558,8 x 12,5 | | | | | 615 | 1130 |
| 609,6 x 12,5 | | | | | 570 | 1045 |
| 622,0 x 12,5 | | | | | 555 | 1030 |

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Title:-

SAFETY BRAKE DETAILS

| | |
|----------------------|---------------------|
| Drawing No:- LC-1577 | Page No:- 2 OF 2 |
| Revision No:- R | Rev Date:- 30/09/16 |
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