

TLS-C-G2 Terminal Limit Switches

Accurate, maintenance-free limit switches

TLS-C-G2 Terminal Limit Switches from MCE are highly accurate, maintenance-free hoistway switches. Magnetically activated TLS-C-G2 switches replace old-technology mechanical switches and eliminate noisy rollers and cams and cumbersome lever arms.

TLS-C-G2 switches deliver the accuracy required by today's high speed elevators and computerized controls, providing clean-edged, unwavering open/closed inputs at speeds up to 1800 fpm (9 mps).

Your TLS-C-G2 installation will include an enclosure populated with switches and a matching number of actuator magnets and mounting brackets. The switch enclosure mounts on the elevator cartop; the actuating magnets mount on the brackets which are in turn attached to the elevator guide rail.

The sturdy, cartop-mounted steel enclosure protects switch electronics. The enclosure is available in 12- and 16-switch capacities to suit the requirements of the majority of installations. Individual switches are positioned on 1 5/8 inch (41.1 mm) centers.



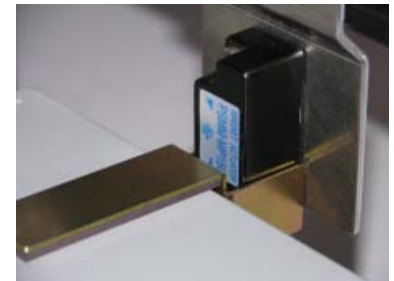
TLS-C-G2 components and alignment tool

Applications

- Modernization or new construction

Benefits

- Superior accuracy
- Quiet operation
- Easy installation and adjustment
- High temperature/humidity tolerance
- No RFI/EMI sensitivity
- Use for Normal Terminal Slowdowns, Emergency Terminal Stopping or Speed Limiting switches, Access Limits, or Earthquake Car-to-Counterweight position switches in accordance with local code requirements
- Provided tool sets proper depth and sensor to magnet alignment



www.mceinc.com

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MCE
Motion Control Engineering®

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The leader in non-proprietary controllers, technical services and repair solutions for elevator modernization.

TLS-C-G2 Terminal Limit Switches

Switch Requirements

TLS-C-G2 Terminal Limit Switches are simple and rugged, designed to stand up to hoistway conditions. Magnetically actuated switches require no maintenance, eliminating the cycle of cleaning, adjusting, and lubricating necessary to keep traditional mechanical switches* working properly. The table below lists the number of switches required for particular car speeds before and after A17.1-2000 compliance.

<i>Car speed (fpm)</i>	<i>Pre A17.1-2000</i>	<i>A17.1-2000 — 2010</i>
Up to 200	6	8
201–350	10	10
351–500	12	12
501–800	14	14
801–1800	16	16

ETS included above 200 fpm

* Final limits are not included. They must be mechanical.

Specifications

Mechanical Sizes

<i>Model</i>	<i>Height</i>	<i>Depth</i>	<i>Width</i>
TLS-C-12-G2	4.00"	5.875"	16.35"
TLS-C-16-G2	4.00"	5.875"	21.625"

Switch Ratings

NEMA B300 (AC) and Q300 (DC)	3.0 A @ 120 VAC
	1.5 A @ 240 VAC
	0.60 A @ 115 VDC

Operating Life

AC: 30 million cycles

DC: 15 million cycles

Maximum Car Speed

1800 FPM (9 mps)

Running Clearance (Magnet to Switch)

0.25 to 0.75 inches (0.375 recommended)

Lane Spacing

1.625 inches

Certification

CSA B44.1/ASME A17.5

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