

MILL DUTY PRODUCTS

Limit Switch



Application

Type 102TL Track Type Limit Switches are designed as pilot circuit devices for all heavy duty applications to limit travel or set up functions at predetermined positions.

Operation

The contacts of these switches make and break very quickly due to the snap action of the toggle type operating mechanism. The operating arm is secured to a hollow outer shaft that fits over the camshaft. When the arm is tripped, it turns the outer shaft which actuates the toggle mechanism. The toggle mechanism does not change position until the operating lever is past the midpoint of its travel; then it snaps over and turns the camshaft quickly. Since the cams are fastened rigidly to the camshaft, they in turn impart snap action opening and closing to the contacts. Force to operate switch is approximately 25 inch-pounds.

Angular Travel

Total angular travel of the arm from one tripped position to the other is 90°. However, the contacts are actuated when the arm moves 60°, the balance of the travel is to clear the arm so that the linear operator may pass over.



TLSF-11 or 22 with Straight Fork Lever

Features:

- Double Break removable Silver-to-Silver Contacts.
- Each contact may be independently changed from normally open to normally closed and vice versa without disassembly.
- Operating Arm adjustable on shaft.
- Oil impregnated bearings at contact finger pivot points.
- Cast weatherproof enclosure standard. Dust-tight and watertight enclosures are also available for all types.
- Contact wearing parts completely interchangeable with same parts in Type 101SD Master Switch, 101FS Foot Switch, and 102HL & CHL Limit Switch.

Available Levers:



Part # A102-054262
TLSF Straight
Fork Lever



Part # A102-054261
TLS Rod or
Chain Type Lever

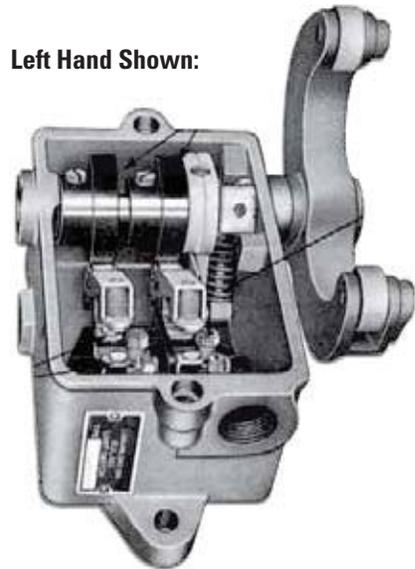


A102-460805A-1
TLRS Straight Roller Lever



Part # 102-54260A
TLF Roller Fork
Lever

Left Hand Shown:



TLF-22, 2 Contacts, Cover Removed

Type TL Snap Action - Limit Switch

Type	Operating Lever	Contacts ²	Standard Enclosure Catalog No.	Dust-tight Enclosure Catalog No.	Watertight Enclosure Catalog No.
TLS-11	Rod or Chain	1	A102-80579A-1	A102-80579A-2	A102-80580A
TLS-22	Rod or Chain	2	A102-80581A-1	A102-80581A-2	A102-80582A
TLSR-11	Straight or Roller	1	A102-80591A-1	A102-80591A-2	A102-80592A
TLSR-22	Straight or Roller	2	A102-80593A-1	A102-80593A-2	A102-80594A
TLF-11	Roller Fork	1	A102-80575A-1	A102-80575A-2	A102-80576A
TLF-22	Roller Fork	2	A102-80577A-1	A102-80577A-2	A102-80578A
TLSF-11	Straight Fork	1	A102-80583A-1	A102-80583A-2	A102-80584A
TLSF-22	Straight Fork	2	A102-80585A-1	A102-80585A-2	A102-80586A

Note:

1. Includes limit switch complete with operating lever.
2. Contacts can be changed from open to close by rotating cam 180°.

Limit Switch Electrical Ratings

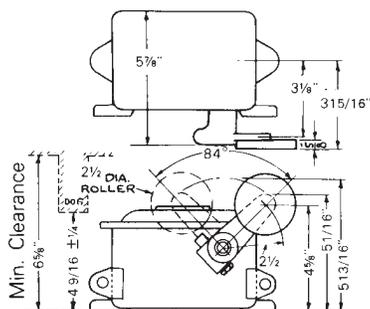
25 Amp - 600V AC Maximum Heavy Pilot Duty 600V AC A600, 250V DC Maximum N300.			
Volts	Current - Amperes		
	Carry	Break	Inrush/ Make
110-120V AC	25	6.0	6.0
220-240V AC	25	3.0	3.0
440-480V AC	25	1.5	1.5
550-600V AC	25	1.2	1.2
115-125V DC	10	2.2	2.2
230-250V DC	10	1.1	1.1

Ordering Information:

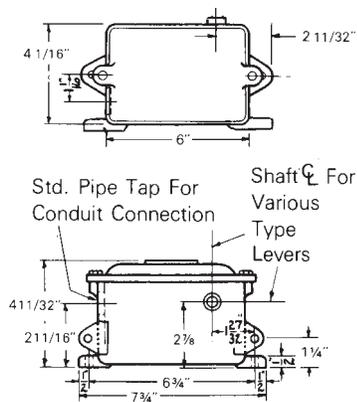
- Use complete catalog number when ordering.

Approximate Outline Dimensions

TLSR Straight Roller Lever

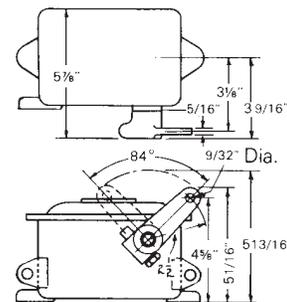


Enclosure Dimensions Only (Same for all types)

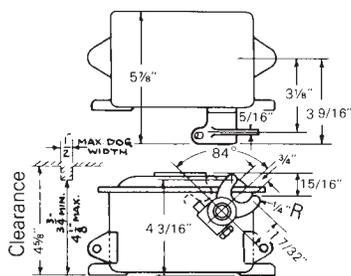


Std. Pipe Tap For Conduit Connection
Shaft \varnothing For Various Type Levers

TLS Rod or Chain Type Lever



TLSF Straight Fork Lever



TLF Roller Fork Lever

