

## WLD-TS

No Image Available

### Ratings

<b>Shape / Structure</b>	General-purpose Limit switches
<b>service life</b>	General type
<b>Operating mechanism</b>	Snap action
<b>Actuator</b>	Top plunger (Stainless steel plunger)
<b>Frequency</b>	50/60 Hz
<b>Leakage current</b>	Approx. 0.5 mA
<b>Switching mechanism</b>	Self-reset mechanism
<b>Contact configuration</b>	2-circuit double break type
<b>Contact form</b>	1a1b
<b>Load</b>	General load
<b>Ratings (AC): Non-Inductive load</b>	Rated voltage: 125 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 3 A (NC) 1.5 A (NO) Rated voltage: 250 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 2 A (NC) 1 A (NO) Rated voltage: 500 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 1.5 A (NC) 0.8 A (NO)

<b>Ratings (AC): Inductive load</b>	Rated voltage: 125 VAC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 5 A (NC) 2.5 A (NO) Rated voltage: 250 VAC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 3 A (NC) 1.5 A (NO) Rated voltage: 500 VAC, Inductive load: 3 A (NC) 3 A (NO), Motor load: 1.5 A (NC) 0.8 A (NO)
<b>Ratings (DC): Non-Inductive load</b>	Rated voltage: 8 VDC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 6 A (NC) 3 A (NO) Rated voltage: 14 VDC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 6 A (NC) 3 A (NO) Rated voltage: 30 VDC, Resistive load: 6 A (NC) 6 A (NO), Lamp load: 4 A (NC) 3 A (NO) Rated voltage: 125 VDC, Resistive load: 0.8 A (NC) 0.8 A (NO), Lamp load: 0.2 A (NC) 0.2 A (NO) Rated voltage: 250 VDC, Resistive load: 0.4 A (NC) 0.4 A (NO), Lamp load: 0.1 A (NC) 0.1 A (NO)
<b>Ratings (DC): Inductive load</b>	Rated voltage: 8 VDC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 6 A (NC) 6 A (NO) Rated voltage: 14 VDC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 6 A (NC) 6 A (NO) Rated voltage: 30 VDC, Inductive load: 6 A (NC) 6 A (NO), Motor load: 4 A (NC) 4 A (NO) Rated voltage: 125 VDC, Inductive load: 0.8 A (NC) 0.8 A (NO), Motor load: 0.2 A (NC) 0.2 A (NO) Rated voltage: 250 VDC, Inductive load: 0.4 A (NC) 0.4 A (NO), Motor load: 0.1 A (NC) 0.1 A (NO)
<b>Explanation</b>	The above values indicate the steady-state current. Lamp load has an inrush current of 10 times the steady-state current. Inductive load has a power factor of 0.4 Min. (AC) and a time constant of 7 ms Max. (DC). Motor load has an inrush current of 6 times the steady-state current.
<b>Inrush current</b>	NC: 30 A NO: 20 A
<b>Protective circuit</b>	Classification of protection against electric shock: Class I Short-circuit protective device: 10 A fuse type gI or gG (IEC269)
<b>Conduit size</b>	1/2-14NPT
<b>Earth terminal</b>	With ground terminal
<b>Ambient temperature</b>	Operating: -10 CEL to 80 CEL (with no icing or condensation)
<b>Ambient humidity</b>	Operating: 35%RH to 95%RH (with no icing or condensation)

## Characteristics

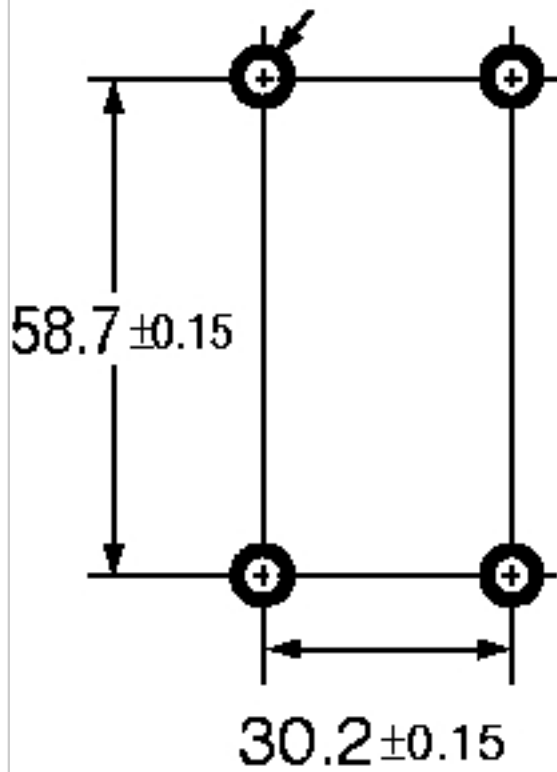
<b>Permissible operating speed</b>	1 mm/s to 0.5 m/s
<b>Permissible operating frequency (Mechanically)</b>	120 operations / 1 minute Max.
<b>Permissible operating frequency (Electrically)</b>	30 operations / 1 minute Max.
<b>Contact resistance</b>	25 m Ohm Max. (Initial value) (Measuring method is contact resistance meter.)
<b>Insulation resistance</b>	Between each terminal of the same polarities: 100 M Ohm Min. Between live-metallic part and ground: 100 M Ohm Min. Between each terminal and non-live-metallic part: 100 M Ohm Min. (at 500 VDC Megger)
<b>Dielectric strength</b>	Between each terminal of the same polarities: 1,000 VAC Between live-metallic part and ground: 2,200 VAC Between each terminal and non-live-metallic part: 2,200 VAC (50/60 Hz for 1 min)
<b>Durability (Mechanically)</b>	15,000,000 operations Min. (No load) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 % RH)
<b>Durability (Electrically)</b>	750,000 operations Min. (Resistive load 10 A at 125 VAC) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 % RH)
<b>Pollution degree</b>	3 (EN60947-5-1)
<b>Vibration resistance (Malfunction)</b>	Vibration frequency range: 10 to 55 Hz, Double amplitude: 1.5 mm, Contact opening: 1 ms Max. at the free position and the total travel position.
<b>Shock resistance (Destruction)</b>	1,000 m/s <sup>2</sup>
<b>Shock resistance (Malfunction)</b>	Contact opening is 1 ms Max. at the free position and the total travel position at 300 m/s <sup>2</sup> .
<b>Degree of protection</b>	IEC60529 (JEM): IP67 NEMA250: Type3,4,13

<b>Applicable standard (UL)</b>	Standard No.: UL508 File number: E76675
<b>Applicable standard (CSA)</b>	Standard No.: C22.2 NO.14 File number: LR45746
<b>Applicable standard (TUV)</b>	Standard No.: EN60947-5-1 File number: J50022353
<b>Applicable standard (CCC(CQC))</b>	Standard No.: GB14048.5 File number: 2003010305032365
<b>Applicable standard (EC Directive (Low Voltage Directive))</b>	2006/95/EC
<b>Mounting specification</b>	Front mounting, Back mounting

#### Operating characteristics

<b>Operating Force (OF)</b>	Standard value 26.67 N Max.
<b>Release Force (RF)</b>	Standard value 8.92 N Min.
<b>Pre-Travel (PT)</b>	Standard value 1.7 mm Max.
<b>Over-Travel (OT)</b>	Standard value 6.4 mm Min.
<b>Movement Differential (MD)</b>	Standard value 1 mm Max.
<b>Operating Position (OP)</b>	Standard value 34 +/- 0.8 mm
<b>Operating limit position (TTP)</b>	Standard value 29.5 mm Max.

Four,  $5.2^{+0.2}_0$  dia. mounting holes or M5 taps



**Caution:** All units are in millimeters unless otherwise indicated.

