

## D4A-1105N

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>	Rotating lever (Holding type)
<b>Frequency</b>	50/60 Hz
<b>Switching mechanism</b>	Self-holding 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: 480 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 1.5 A (NC) 0.8 A (NO) Rated voltage: 600 VAC, Resistive load: 3 A (NC) 1 A (NO), Lamp load: 1 A (NC) 0.5 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: 480 VAC, Inductive load: 3 A (NC) 3 A (NO), Motor load: 1.5 A (NC) 0.8 A (NO) Rated voltage: 600 VAC, Inductive load: 1.5 A (NC) 1.5 A (NO), Motor load: 1 A (NC) 0.5 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>Conduit size</b>	1/2-14NPT
<b>Ambient temperature</b>	Operating: -40 CEL to 100 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 2 m/s
<b>Permissible operating frequency (Mechanically)</b>	300 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>	50,000,000 operations Min. (No load) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 %RH)
<b>Durability (Electrically)</b>	1,000,000 operations Min. (Resistive load 10 A at 125 VAC) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 %RH)
<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 600 m/s <sup>2</sup> .

Degree of protection	IEC60529 (JEM): IP67 NEMA250: Type3,4,4X,6P,13
Applicable standard (UL)	Standard No.: UL508 File number: E76675
Applicable standard (CSA)	Standard No.: C22.2 NO.14 File number: LR45746
Applicable standard (CCC(CQC))	Standard No.: GB14048.5 File number: 2003010305077615
Mounting specification	Front mounting, Back mounting

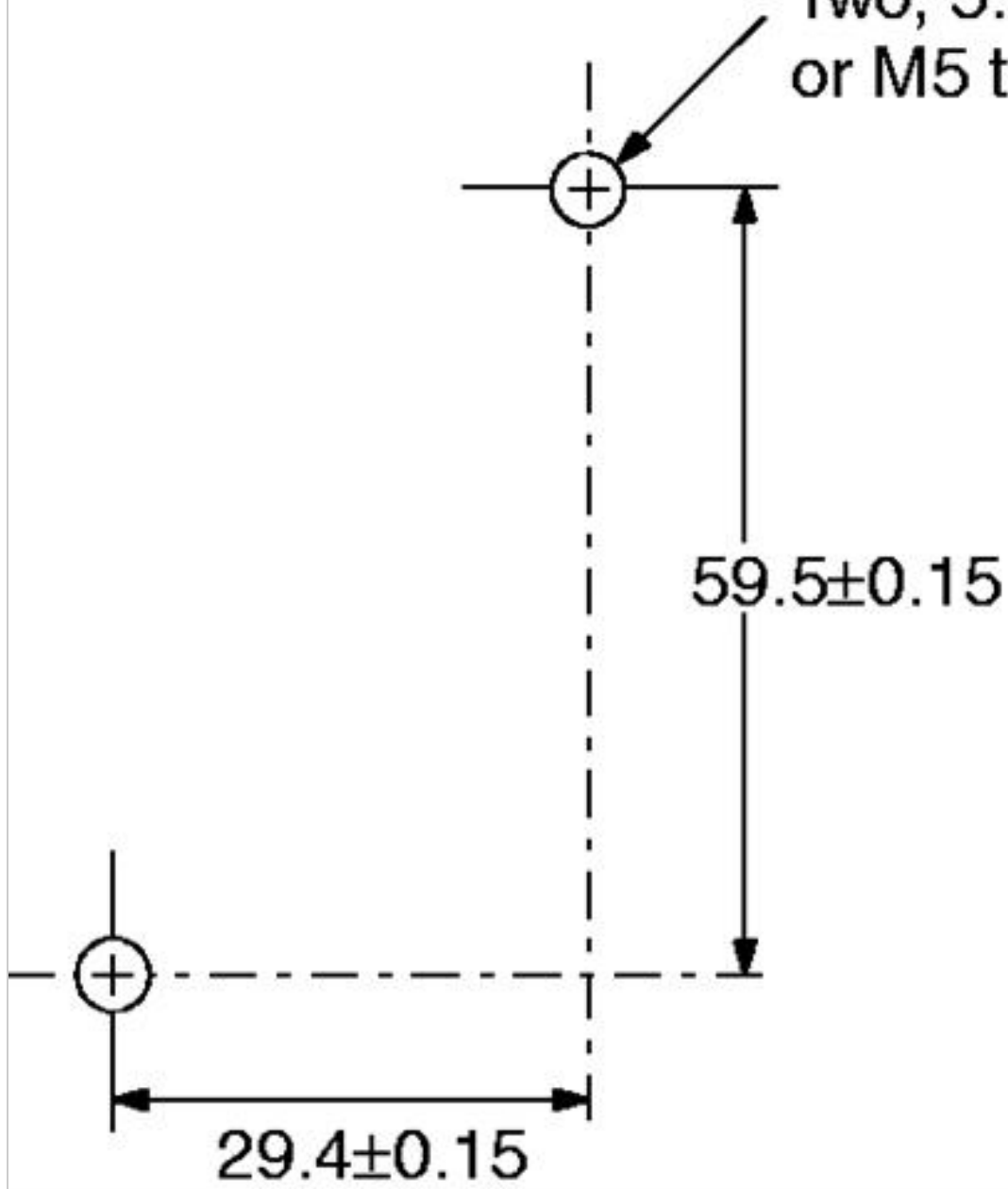
#### Operating characteristics

Operating Force (OF)	Standard value 0.39 N.m Max.
Pre-Travel (PT)	Standard value 65 DEG Max. Average value 60 DEG Max.
Over-Travel (OT)	Standard value 20 DEG Min.
Movement Differential (MD)	Standard value 35 DEG Max. Average value 30 DEG Max.

#### Precautions for correct use:

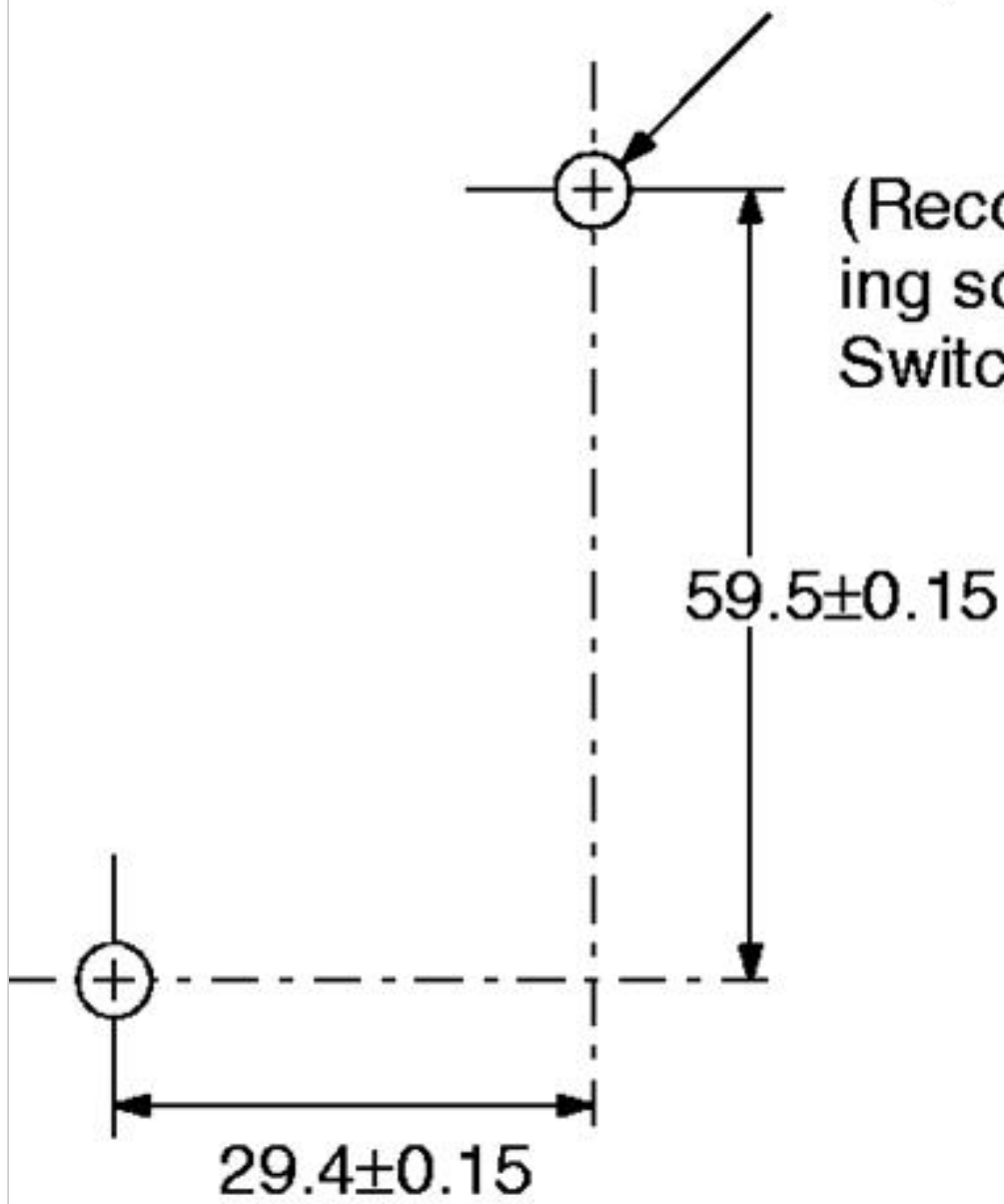
This switch does not provide an actuator. Select an actuator and put it on the switch.

Two,  $5.2^{+0.2}_0$  dia. holes  
or M5 tapped holes



Two,  $6.2^{+0.2}_0$  dia. holes

(Recommended mounting screws: M6.  
Switch Box depth: 10.)



Caution: All units are in millimeters unless otherwise indicated.

