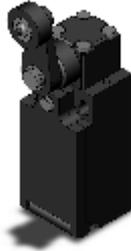


Safety Limit Switch

D4N-4120

Safety Limit Switch, M20, 1-conduit, 1NC/1NO (snap-action), Roller lever (resin lever, resin roller)



Image

| | |
|-----------------------------|--------------|
| Actuator | Roller lever |
| Operating mechanism | Snap action |
| Contact form | 1NC/1NO |
| Degree of protection | IP67 |

Ratings / Performance

As of October 23, 2025

| | |
|----------------------------|--|
| Operating mechanism | Snap action |
| Actuator | Roller lever 17.5 dia. x 6.8 Resin lever, Resin roller R26 |
| Frequency | 50/60 Hz |
| Contact form | 1NC/1NO |
| Load | General load/Micro load |
| Conduit | M20 Number of conduit: 1 |
| Ambient temperature | Operating: -30 to 70 °C (with no icing) |
| Ambient humidity | 95 %RH max. |

| | |
|--|---|
| Permissible operating frequency | 30 operations / 1 minute max. |
| Contact resistance (Initial value) | 25 mΩ max. |
| Insulation resistance | 100 MΩ min. |
| Impulse withstand voltage | Between each terminal of the same polarities: 2.5 kV Between each terminal of the different polarities: 4 kV Between each terminal and non-live-metallic part: 6 kV |
| Durability | Mechanical: 15,000,000 operations min. |
| Vibration resistance | Malfunction: 10 to 55 Hz, 0.75 mm single amplitude |
| Shock resistance | Destruction: 1000 m/s ² Malfunction: 300 m/s ² |
| Degree of protection | IP67 |
| Classification of protection against electric shock | Class II (Double insulation) |

| | |
|-----------------------------|-------------------------|
| Operating Force (OF) | Standard value 5 N max. |
|-----------------------------|-------------------------|

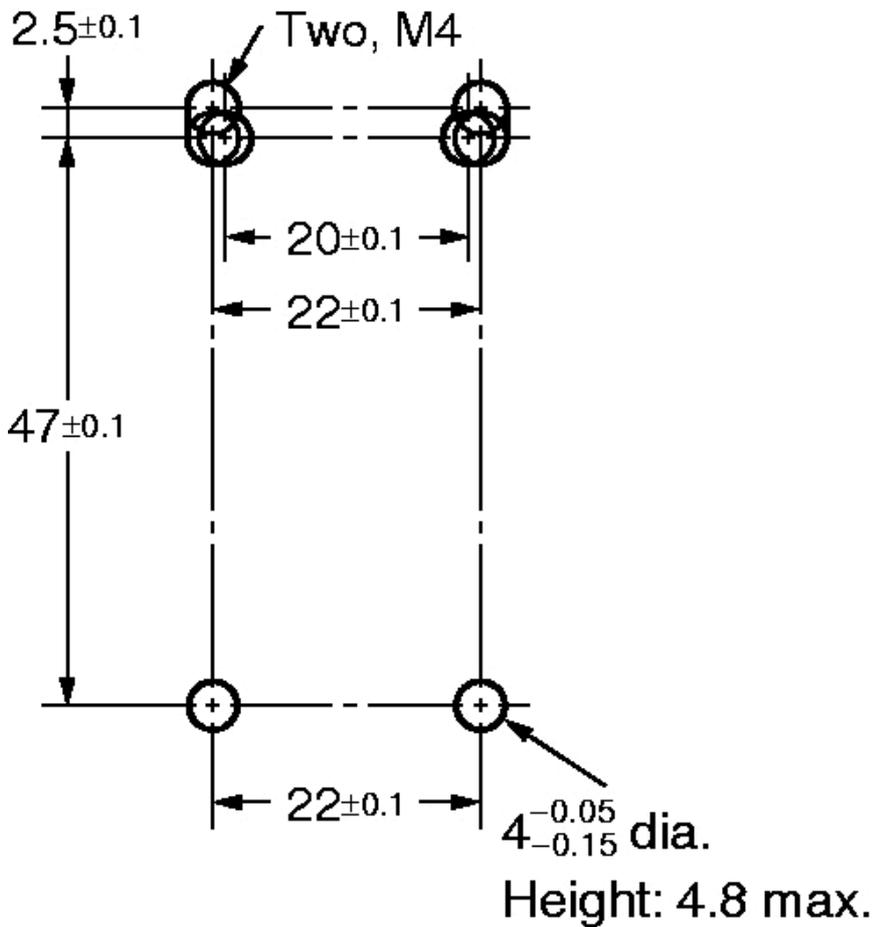
| | |
|----------------------------|---------------------------|
| Release Force (RF) | Standard value 0.5 N min. |
| Pre-Travel (PT) | Standard value 18 to 27 ° |
| Movement Differential (MD) | Standard value 14 ° max. |
| Over-Travel (OT) | Standard value 40 ° min. |
| Total Travel (TT) | Reference value 80 ° |
| Direct Opening Force | Standard value 20 N min. |
| Direct Opening Travel | Standard value 50 ° min. |

As of October 23, 2025

Dimensions

As of October 23, 2025

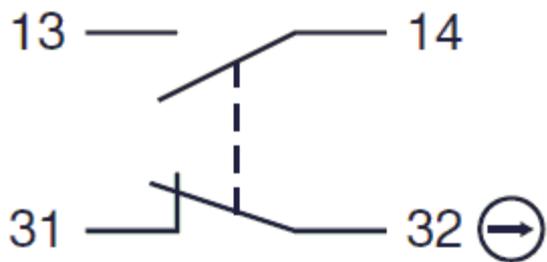
Mounting hole dimensions



As of October 23, 2025

Circuits configuration

As of October 23, 2025



As of October 23, 2025