

Panel Mount Cross Roller Plunger

Model:Z-15GQ21-B



Description:

General-purpose, Panel mount cross roller plunger (12.7 * 4.8 dia., Stainless steel roller), Snap action, Self-reset type, Single-Pole, Double-Throw type, SPDT, Screw terminal (M4)

Actuator	Panel mount cross roller plunger (12.7 * 4.8 dia., Stainless steel roller)
Sensitivity	Standard sensitivity
Contact Form	SPDT
Terminal	Screw terminal (M4)
Rated Current	15A
Degree of Protection	General Type: IEC60529 (JEM): IP00

Rating Performance:

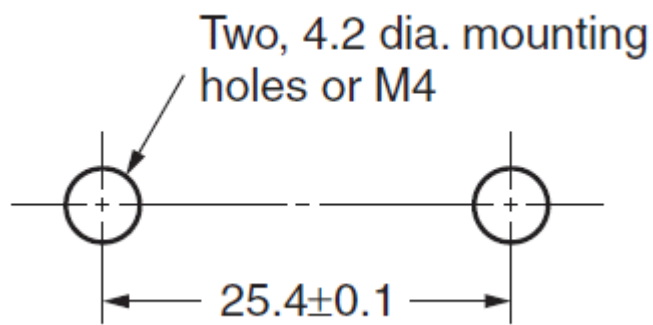
Actuator	Panel mount cross roller plunger (12.7 * 4.8 dia., Stainless steel roller)
Sensitivity	Standard sensitivity
Operation Type	General type
Operating Mechanism	Snap action
Switching Mechanism	Self-reset type
Contact Method	Single-Pole, Double-Throw type
Contact Form	SPDT
Contact Gap	0.5 mm
Terminal	Screw terminal (M4)

Load	General load
Rated Current	15A
Ratings (AC) Non-Inductive Load	Rated voltage: 125 VAC / Resistive load: 15 A(NC) 15 A(NO) / Lamp load: 3 A(NC) 1.5 A(NO) Rated voltage: 250 VAC / Resistive load: 15 A(NC) 15 A(NO) / Lamp load: 2.5 A(NC) 1.25 A(NO) Rated voltage: 500 VAC / Resistive load: 10 A(NC) 10 A(NO) / Lamp load: 1.5 A(NC) 0.75 A(NO)
Ratings (AC) Inductive Load	Rated voltage: 125 VAC / Inductive load: 15 A(NC) 15 A(NO) / Motor load: 5 A(NC) 2.5 A(NO) Rated voltage: 250 VAC / Inductive load: 15 A(NC) 15 A(NO) / Motor load: 3 A(NC) 1.5 A(NO) Rated voltage: 500 VAC / Inductive load: 6 A(NC) 6 A(NO) / Motor load: 1.5 A(NC) 0.75 A(NO)
Ratings (DC) Non-Inductive Load	Rated voltage: 8 VDC / Resistive load: 15 A(NC) 15 A(NO) / Lamp load: 3 A(NC) 1.5 A(NO) Rated voltage: 14 VDC / Resistive load: 15 A(NC) 15 A(NO) / Lamp load: 3 A(NC) 1.5 A(NO) Rated voltage: 30 VDC / Resistive load: 6 A(NC) 6 A(NO) / Lamp load: 3 A(NC) 1.5 A(NO) Rated voltage: 125 VDC / Resistive load: 0.5 A(NC) 0.5 A(NO) / Lamp load: 0.5 A(NC) 0.5 A(NO) Rated voltage: 250 VDC / Resistive load: 0.25 A(NC) 0.25 A(NO) / Lamp load: 0.25 A(NC) 0.25 A(NO)
Ratings (DC) Inductive Load	Rated voltage: 8 VDC / Inductive load: 15 A(NC) 15 A(NO) / Motor load: 5 A(NC) 2.5 A(NO) Rated voltage: 14 VDC / Inductive load: 10 A(NC) 10 A(NO) / Motor load: 5 A(NC) 2.5 A(NO) Rated voltage: 30 VDC / Inductive load: 5 A(NC) 5 A(NO) / Motor load: 5 A(NC) 2.5 A(NO) Rated voltage: 125 VDC / Inductive load: 0.05 A(NC) 0.05 A(NO) / Motor load: 0.05 A(NC) 0.05 A(NO) Rated voltage: 250 VDC / Inductive load: 0.03 A(NC) 0.03 A(NO) / Motor load: 0.03 A(NC) 0.03 A(NO)
Ratings Explanation	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.
Inrush Current	NC: 30 A NO: 15 A
Ambient Temperature	Operating : -25 to +80 °C Storage : -25 to 80 °C (with no icing or condensation)
Ambient Humidity	Operating: 35 to 85%RH Storage: 35 to 85%RH

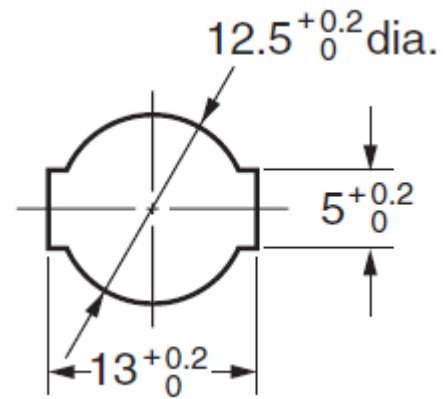
Speed of Permissible Operation	0.01 mm/s to 1000 mm/s
Permissible Operating Frequency (Mechanically)	240 operations / 1 minute Max.
Permissible Operating Frequency (Electrically)	20 operations / 1 minute Max.
Contact Resistance	15 mΩ (Initial value. Measuring method is voltage drop method at 1 A, 6 to 8 VDC.)
Insulation Resistance	Between each terminal of the same polarities: 100 MΩ min. Between live-metallic part and ground: 100 MΩ min. Between each terminal and non-live-metallic part: 100 MΩ min. (at 500 VDC Megger)
Dielectric Strength	Between each terminal of the same polarities: 1000 V min. Between live-metallic part and ground: 2000 V min. Between each terminal and non-live-metallic part: 2000 V min. (50/60 Hz for 1 min)
Mechanical Durability	10,000,000 operations Min.
Electrical Durability	500,000 operations Min. (rating load)
Vibration Resistance (Malfunction)	Vibration frequency range: 10 to 55 Hz, Double amplitude: 1.5 mm, Malfunction: 1 ms max. at the free position and the total travel position.
Shock Resistance (Destruction)	1,000 m/s**2
Shock Resistance (Malfunction)	Malfunction time is 1 ms Max. at the free position and the total travel position at 50 m/s**2.
Degree of Protection	General type IEC60529 (JEM): IP00
Mounting Method	Mounting with screw or ring nut
Weight	Approx. 56 g
Operating Force (OF)	Standard value 2.45 to 3.43 N
Release Force (RF)	Standard value 1.12 N min.
Pre-Travel (PT)	Standard value 0.4 mm max.
Over-Travel (OT)	Standard value 3.58 mm min.
Movement Differential(MD)	Standard value 0.05 mm max.
Operating Position (OP)	Standard value 32.2 to 34.6 mm

Mounting Holes:

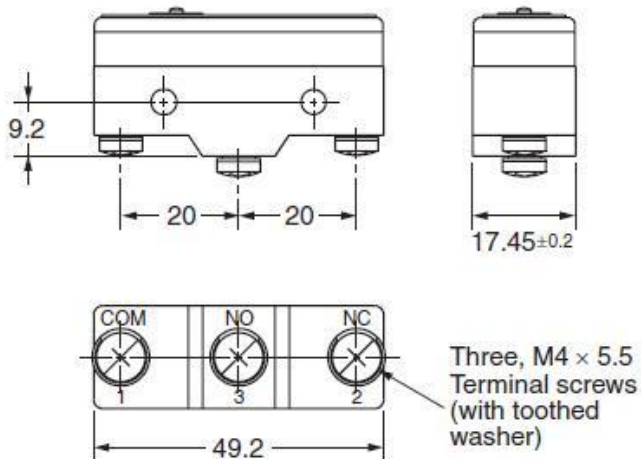
Screw mounting hole dimensions.



Ring nut mounting hole dimensions.

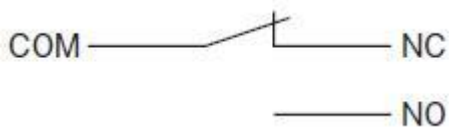


Type of Terminal and Form:



Note: With reverse action models (Z-15GM), the positions of NO and NC terminals are reversed.

Terminals:



Application Load Diagram:

