



Industrial & Electrical Components

General Purpose
Micro Switch

Part No.

NV-21
NV-16

- Industry standard currents of 16A or 21A
- With long expectancy, reliability
- Variety of levers, terminals and operating forces
- Heat resistant available
- RoHS compliant

ORDERING INFORMATION

NV- ☐ ☐ ☐ ☐ ☐ ☐

① ② ③ ④ ⑤ ⑥

1. Ratings

21: 21A at 250VAC

16: 16A at 250VAC

2. Contact Gap

None: 1mm

3. Actuator

None: Pin plunger

Z: Hinge lever

W: Simulated roller lever

G: Hinge roller lever

4. Contact Form

None: SPDT

2: SPST-NC

3: SPST-NO

5. Terminals

A: Solder terminals

C: Quick-connect terminal (#250)

C2: Quick-cinnect terminal (#187)

6. Maximum Operating Force

6: 3.92N

5: 1.96N

4: 0.98N

RATINGS (REFERENCE VALUES)

Model	Reted voltage	No-inductive load				Inductive load			
		Resistive load		Lamp load		Inductive load		Motor load	
		NC	NO	NC	NO	NC	NO	NC	NO
NV-21	AC250V	21A		3A		12A		6A	
	DC8V	21A		5A		12A		7A	
	DC30V	14A		5A		12A		5A	
	DC125V	0.6A		0.1A		0.6A		0.1A	
	DC250V	0.3A		0.05A		0.3A		0.05A	
NV-16	AC250V	16A		2A		10A		6A	
	DC8V	16A		4A		10A		7A	
	DC30V	10A		4A		10A		5A	
	DC125V	0.6A		0.1A		0.6A		0.1A	
	DC250V	0.3A		0.05A		0.3A		0.05A	

TECHNICAL DATA

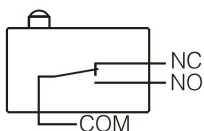
Item Type		NV-21 / NV-16
Allowable operating speed		0.1mm~1m/s
Operating frequency	Mechanical	600 times/min
	Electrical	30 times/min
Insulation resistance		Min.:100MΩ (above DC500C)
Contact resistance		Max.:30mΩ initial value
Dielectric strength	BTW same polarity terminals	AC1000V 50/60Hz 1min
	BTW current-carrying parts	AC1500V 50/60Hz 1min
	BTW terminal & metal parts	AC1500V 50/60Hz 1min
Vibration resistance	Malfunction	10~55Hz double amplitude 1.5mm
Shock resistance	Durable	1,000 m/s ² (approx. 100G) max.
	Malfunction	300 m/s ² (approx. 30G) max
Expected life	Mechanical life	1x10 ⁶ (60 operations/minute)
	Electrical life	1x10 ⁵ (30 operations/minute)
Protection degree		IEC IP40
Ambient operation temperature		-20℃~+125℃
Ambient humidity		60%RH
Contact material		silver alloy
Weight		Approx. 6.2 g (plunger models)

CONTACT SPECIFICATION

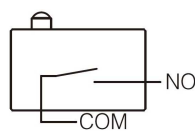
Item		NV-21	NV-16
Specification		Rivet	
Material		Silver alloy	
Gap (Standard value)		0.5mm	
Inrush current	NC	50A max.	40A max.
	NO		
Minimum applicable load		160mA at 5VDC	

CONTACT FORM

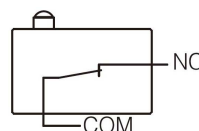
SPDT



SPST- NO

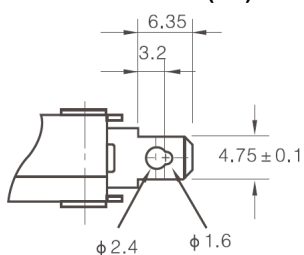


SPST- NC

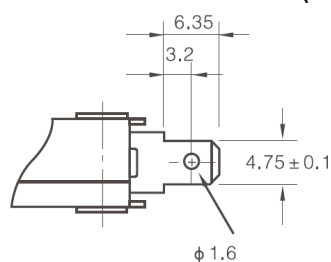


TERMINAL

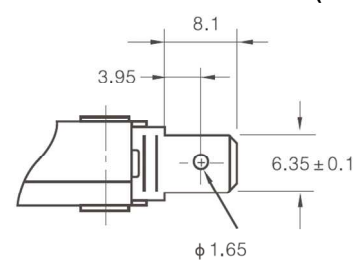
Solder terminal (A)



Quick-connect terminal #187(4.8 x 0.5)



Quick-connect terminal #250 (6.3 x 0.8)



SAFETY APPROVAL

UL61058

CSA-C22.2 No.61058-1

Rated voltage	NV-21	NV-16
AC125V	21A	16A
AC250V		

ENEC

(EN61058-1)

Rated voltage	NV-21	NV-16
AC125V	21A	16A
AC250V		

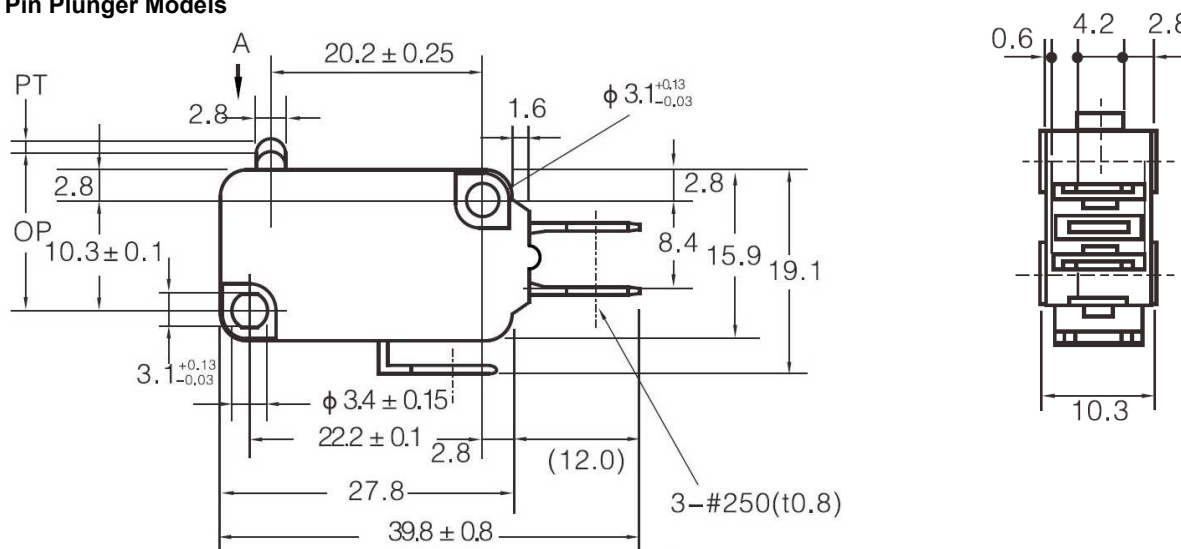
CQC

(GB15092.1)

Rated voltage	NV-21	NV-16
AC125V	21(6)A	16(4)A
AC250V		

DIMENSIONS (mm)

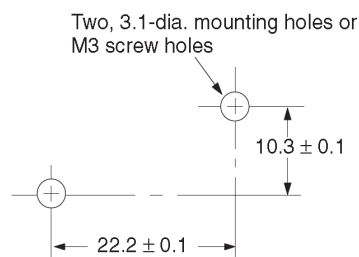
Pin Plunger Models



OPERATING CHARACTERISTICS

Operating performance	NV-21	NV-16
OF max.	3.92N	1.96N
RF min.	0.78N	0.49N
PT max.	1.2mm	
OT min.	1.0mm	
MD max.	0.4mm	
OP	14.7 ± 0.4mm	

MOUNTING HOLES



All switches may be panel mounted using M3 mounting screws with plane washers or spring washers to securely mount the switch. Tighten the screws to a torque of 0.39 to 0.59 N·m.