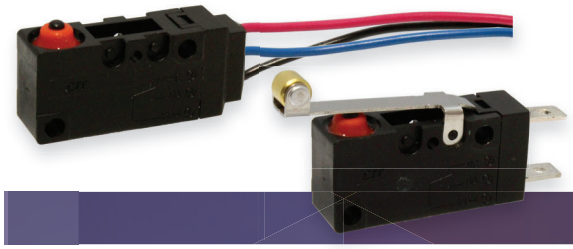


E222871

CIT Relay & Switch

VM3S

IP67 UL Approved Miniature Snap-Action

Specifications

UL Electrical Ratings Q	6A @ 36VDC, Resistive, 40T120, 50K cycles 10.1A @ 125VAC / 250VAC, Resistive 40T120, 50K cycles 10.1A @ 125VAC / 250VAC, General Purpose 40T120, 50K cycles 6(3)A @ 125VAC / 250VAC, Resistive-Motor, 40T120, 50K cycles

Contact Resistance	Without Wire : ≤ 50m Ω initial With Wires : ≤ 100m Ω initial
Mechanical Life	1,000,000 cycles typical
Actuation Forces	180gF or 300gF
Dielectric Strength	1000Vrms min. @ sea level
Insulation Resistance	≥ 100MΩ min
Operating Temperature	-40ºC to +120ºC
Storage Temperature	-40ºC to +120ºC
Sealing Degree	IP67

Materials

Base / Cover	Polybutylene Terephthalate (PBT), UL94-V0
Pin Plunger	Polybutylene Terephthalate (PBT), UL94-V0
Contacts	Silver Alloy Rivets or Gold Plated Silver Rivets
Terminals	Copper Alloy, Silver Plated
Wire	UL1015 20AWG 300mm

Ordering Information

1. Series	VM3S	C	Q	F180	3	L06

1. Series
VM3S

2. Circuit
A = SPST NO
B = SPST NC
C = SPDT

3. Contact Material
Q = Silver
G = Gold over Silver Plated (1)

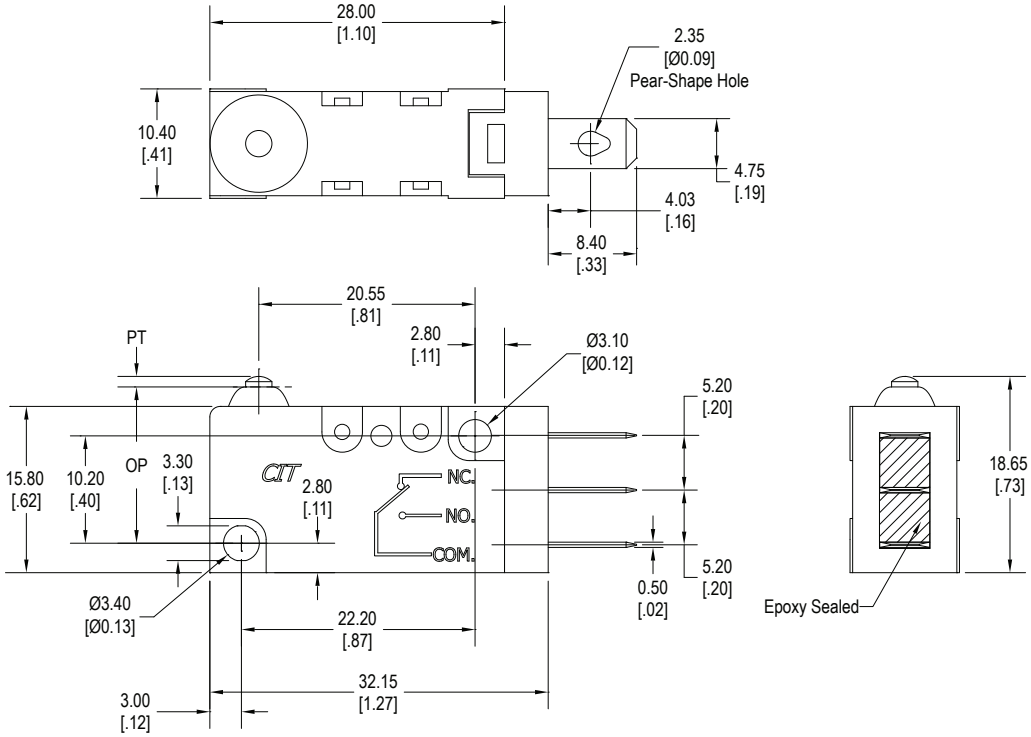
4. Operating Force without lever *Contact factory for other force options*
F180 = 180gF
F300 = 300gF

5. Termination
2 = 0.187" Quick Connect
3 = 300mm UL 1015 20AWG Wire

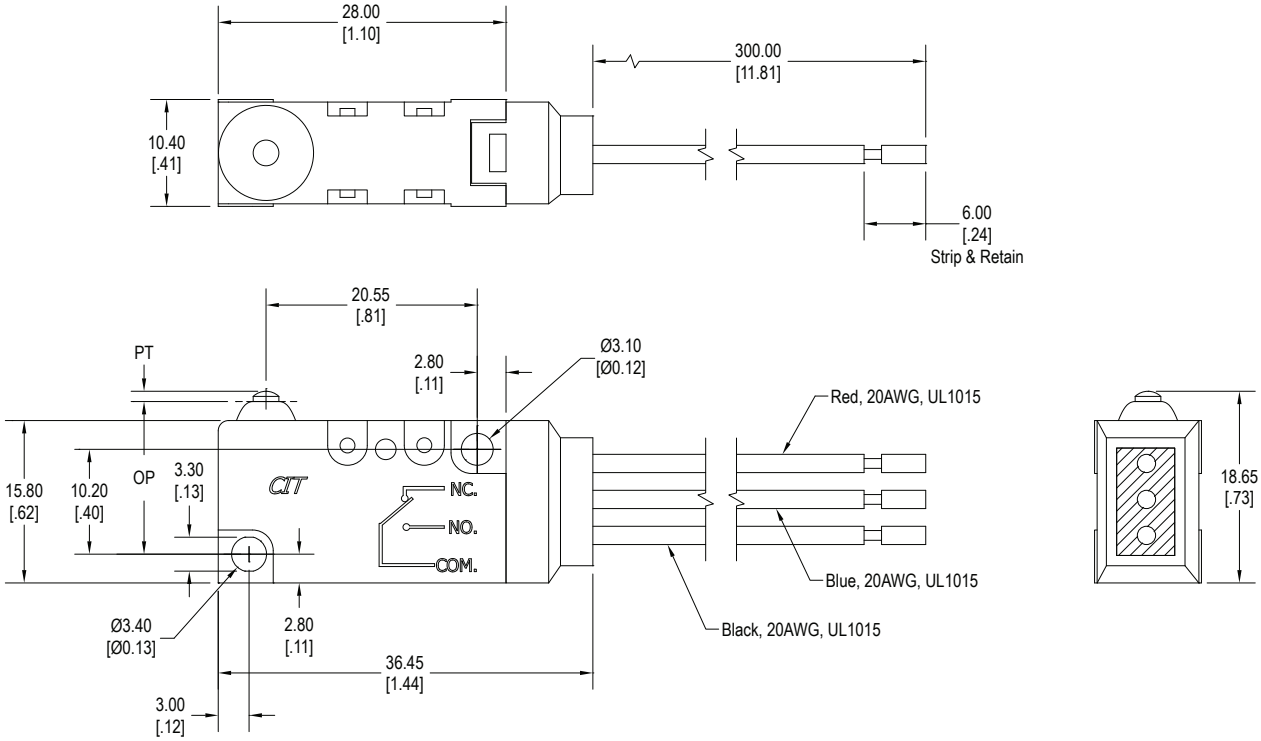
6. Actuator (Lever) *Contact factory for other lever options*
L00 = Pin plunger
L01 = Roller lever, standard
L02 = Simulated roller
L03 - Hinge lever, standard
L04 = Hinge lever, short
L06 = Roller lever, short

(1) Gold over Silver Plated contact material electrical rating is 0.1A @ 125VAC / 30VDC, Resistive, 40T4120, 1M cycles

Dimensions - Standard



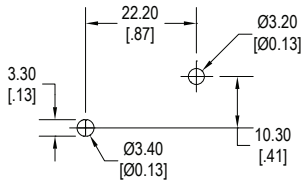
Dimensions - With Wire



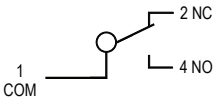
Switch Characteristics

	Operating Force (grams)		Release Force (grams) min.		Free Position all forces (mm)	Pre-Travel (PT) all forces max (mm)		Operating Position (OP) all forces (mm)		Over Travel min		Movement Differential all forces max (mm)	
Actuators (Levers)	180gF	300GF	180gF	300gF		180gF	300GF	180gF	300GF	180gF	300GF	180gF	300GF
L00	180±50	320±50	100gF	250gF	15.75±0.3	1.6	2.0	14.75±0.5	14.75±0.5	0.8	0.6	0.8	0.8
L01	140±60	210±60	50gF	100gF	22.30±0.8	2.5	3.0	20.50±0.8	20.20±0.8	1.0	0.8	1.3	1.3
L02	120±50	200±50	50gF	180gF	20.80±0.8	3.0	3.0	18.70±0.8	18.30±0.8	1.0	0.6	1.3	1.5
L03	120±50	180±50	40gF	80gF	17.50±0.8	3.5	3.5	15.30±0.8	14.90±0.8	1.0	1.0	1.5	1.5
L04	190±80	300±80	80gF	250gF	16.50±0.6	1.8	2.0	15.30±0.8	15.00±0.8	0.5	0.5	1.0	1.0
L06	240±80	380±80	100gF	160gF	21.50±0.6	1.5	1.7	20.5±0.8	20.30±0.8	0.5	0.3	1.0	1.0

Panel Mounting



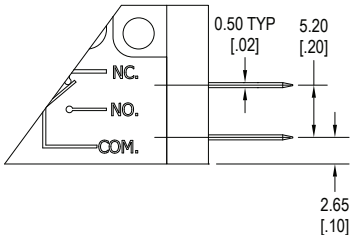
Schematic



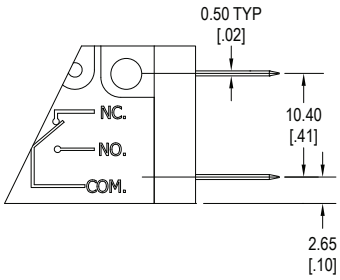
Terminal Options

.187” Quick Connect Terminals

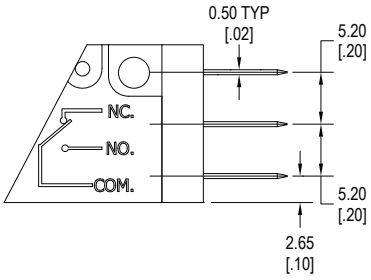
SPST Normally Open



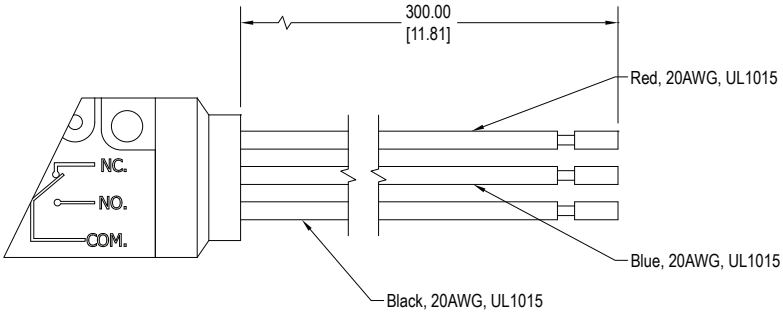
SPST Normally Closed



SPDT



SPDT with wires

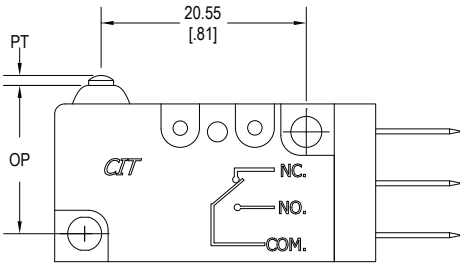


Dimensions are shown for reference purposes only.
Specifications and availability subject to change without notice.
VM3S Rev C 11/2022

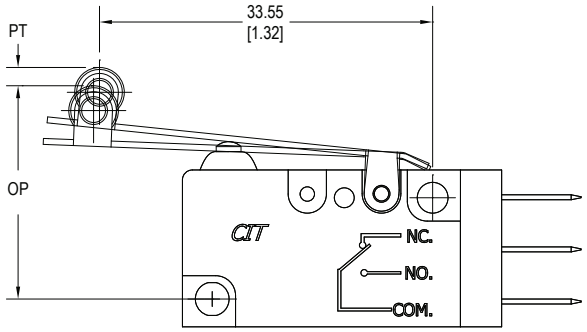
www.CITRelay.com
sales@CITRelay.com

Lever Options

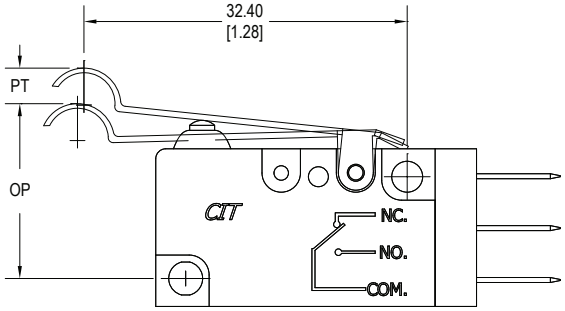
L00, Pin Plunger



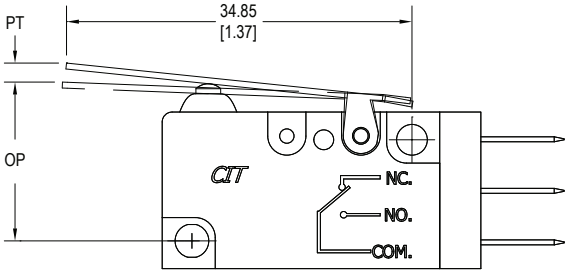
L01, Standard Roller



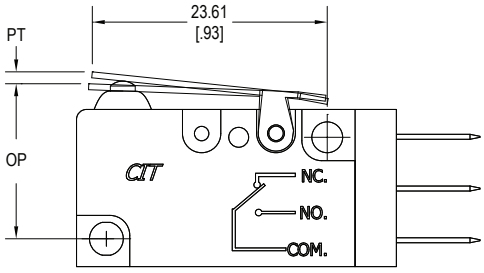
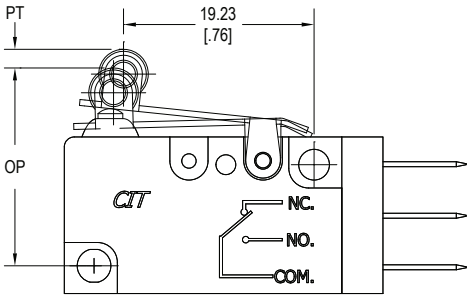
L02, Simulated Roller



L03, Standard Hinge



L04, Short Hinge



L06, Short Roller