

Series 22

MINIATURE 10 AMP DOUBLE-POLE / SIMULTANEOUS SNAP ACTION SWITCHES

This rugged double-pole double-break Butterfly® mechanism switch can be configured for Form XX, Form YY or Form ZZ switching. This unique design is ideal for your toughest applications where reliability is a must.

APPLICATIONS

- Pressure control sensors
- Pendant controls
- Door openers for transit equipment
- Valve actuator
- Lift trucks
- Interlock kiosk

KEY FEATURES:

- Gold or silver contacts
- UL recognized and CSA certified
- Variety of terminal styles
- Roller lever and overtravel plunger actuator are available



ACTUAL SIZE

ORDERING INFORMATION:

Switches

Part Number	Terminals
22-104	End Solder
22-204	#4 Screw
22-304	Side Solder
22-504	Quick Disconnect .250

Actuator (see page 71 for additional specifications)

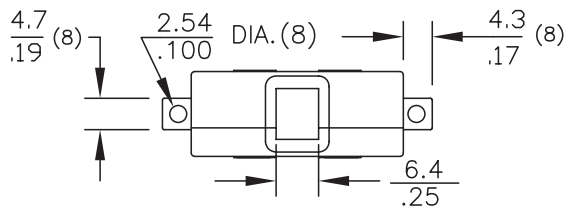
Part Number	Oper. Force	Release Force	Pretravel	Overtravel	Movement Diff.	Operating Point
72-1160 Roller Lever (1)	10 oz max	1.5 oz min	.150 max	.035 min	.070 ± .015	1.0 ± .031
72-2080 Over Travel (2)	17 ± 5 oz	4 oz min	.060 max	.215 min	.030 ± .007	.828±.031

(1) When used with 22-104 basic switch or 22-204 basic switch
(2) When used with 22-304 basic switch

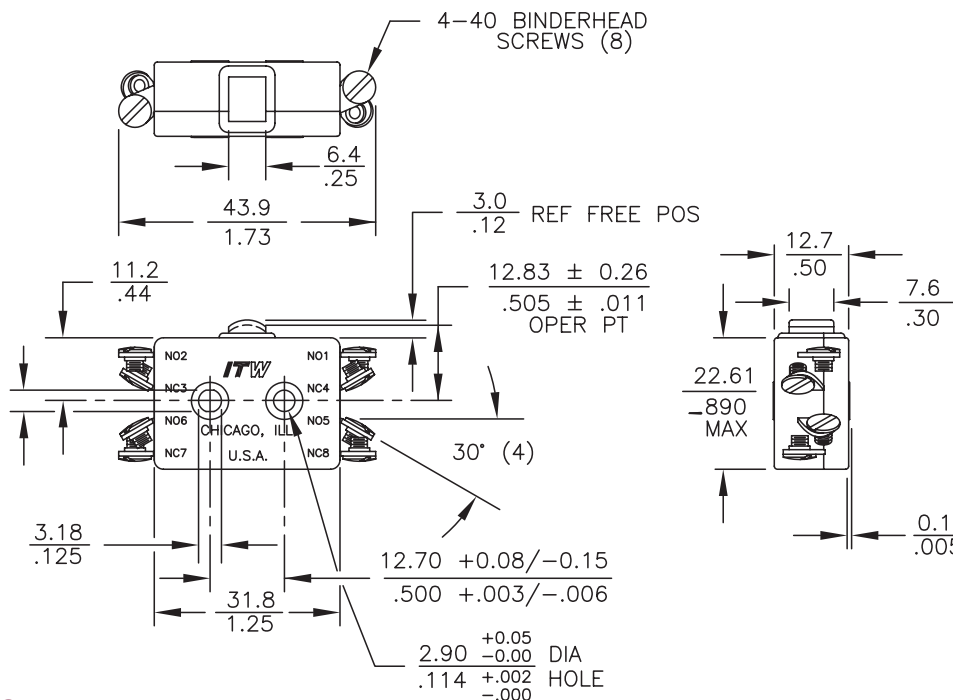
STANDARDS / AGENCY / RATINGS:



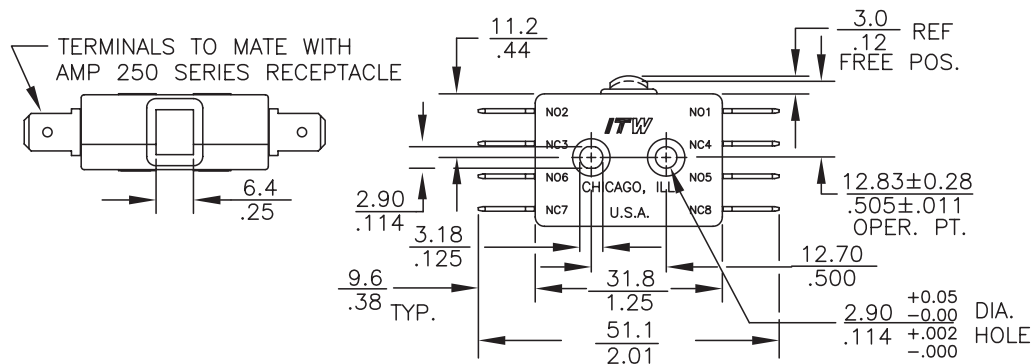
END SOLDER



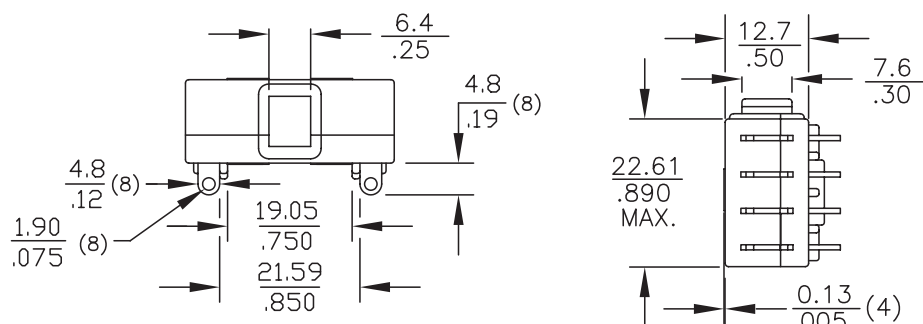
#4 SCREW



QUICK DISCONNECT



SIDE SOLDER



MECHANICAL / ELECTRICAL CHARACTERISTICS:

Pretravel:
0.060 inches max

Overtravel:
0.015 inches min

Operating Force:
17 ± 5 oz

Release Force:
4 oz min

Movement Differential:
0.030 inches ± .009

Operating Point:
0.505 inches ± .011
(from mounting hole centers)

Circuit:
DPDT-DB (Form ZZ)

Electrical Ratings:

Circuitry	125/250 VAC	28 VDC
DPST-DB NO or NC (Form XX or YY)	10 amp (75-80% PF) 1/2 HP 125 VAC	10 amp Ind 15 amp Res
DPDT-DB (Form ZZ)	3/4 HP 250 VAC	7 amp Ind 10 amp Res



- Roller Lever
- Overtravel

Part Number	Oper. Force	Release Force	Pretravel	Overtravel	Movement Diff.	Operating Point
72-1160 Roller Lever (1)	10 oz max	1.5 oz min	.150 max	.035 min	.070 ± .015	1.0 ± .031
72-2080 over travel (2)	17 ± 5 oz	4 oz min	.060 max	.215 min	.030 ± .007	.828 ± .031

(1) When used with 22-104 basic switch or 22-204 basic switch. (2) When used with 22-304 basic switch

Technical drawing of a mechanical part, likely a valve or actuator component, showing two views: a front view (left) and a side view (right).

Front View Dimensions:

- Total height: 29.0 ± 1.14
- Base width: 12.7 ± .50

Side View Dimensions:

- Top flange thickness: 9.52 DIA. X 4.75 THK.
- Flange hole diameter: .375 DIA. X .187
- Flange outer radius: 21.72 R. .855
- Flange hole offset from centerline: 11.1 ± .44
- Flange hole diameter: 12.7 ± .50
- Flange hole offset from base centerline: 14.7 ± .58
- Base width: 12.7 ± .50
- Base mounting holes: 4.4 ± .17 (center-to-center), 3.2 ± .13 (edge-to-center)
- Base thickness: 4.4 ± .17
- Internal feature depth: 12.7 ± .50
- Internal feature offset from base centerline: 31.8 ± 1.25
- Internal feature diameter: 12.7 ± .50
- Internal feature offset from top flange centerline: 25.4 ± 0.79
- Internal feature tolerance: 1.00 ± .031 OPER. PT.
- Internal feature diameter: 3.81 MAX. PRETRAVEL

15/32-32 HEX NUT

21.03 ± 0.79
.828 ± .031
OPER. PT.

STAINLESS STEEL
INTERNAL TOOTH
LOCKWASHER

17V
CHICAGO, ILL.
U.S.A.

TYPICAL SWITCH APPLICATION
(SWITCH NOT INCLUDED)

71

800.544.3354

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ITW Switches:](#)

[22-104](#) [22-204](#) [22-304](#) [22-504](#)