

VCL-5000 Center-Neutral Limit Switch

VCL-5000 series Central-neutral limit switch

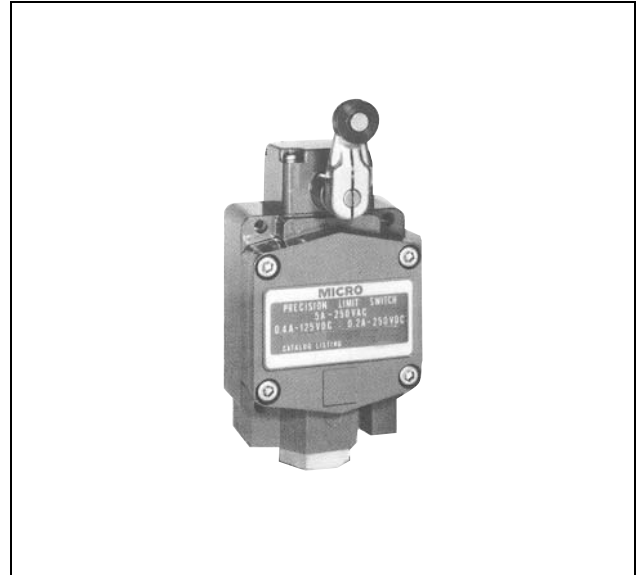
OVERVIEW

- In center neutral operation type, according to hand of cut (clockwise or counterclockwise) of the actuator, respectively internal switch work.
- Two points of the upper/lower limit, fully-close/open and etc. on valve drive parts can be detected with one limit switch.
- It has excellent seal, season resistance, and corrosion resistance.
- It is high sensitivity so that the maximum of P.T. (pretravel) is 10° and the maximum of D.T. (differential travel) is 3°.

Electrical rating

5A: 250V AC

0.4A: 125V DC, 0.2A: 250V DC



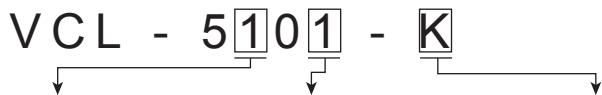
SPECIFICATIONS

Item	VCL-5001 *	
Dielectric strength (50/60 Hz for a minute)	Between non-continuous terminals	600V
	Between each terminal and an uncharged metal part	2000V
	Between each terminal and the ground	2000V
Insulation resistance (500V DC megger)	Over 100 MΩ	
Initial resistance	Under 100 MΩ	
Shock resistance	200 m/s ² (20 G) *	

Item	VCL-5001 *
Vibration resistance (for two continuous hours)	10 to 55 Hz 1.5 mm double amplitude *
Operating speed	0.32 mm/s to 0.5 m/s *
Operating cycle	120 cycles per minute max.
Operating temperature range	-10°C to 70°C
Humidity range	100% RH max.
Mechanical life	Over 2 million cycles
Electrical life	Over 0.1 million cycles under a 3A - 250V AC resistive load

Note)*: The value marked with an asterisk (*) are applicable to the VCL-5001 only. Values without an asterisk (*) are common to all models in the VCL-5000 series.

MODEL SELECTION



Operation mode		Actuator		Special specifications
0	Center-neutral	1	Roller lever	Special switches such as microresistive load switches can be manufactured
1	2-circuit simultaneous	3	Adjustable roller lever	

Contact arrangement

Type	Center neutral			Simulanesou		
	CCW	FP	CW	CCW	FP	CW
Switch 1						
Switch 2						

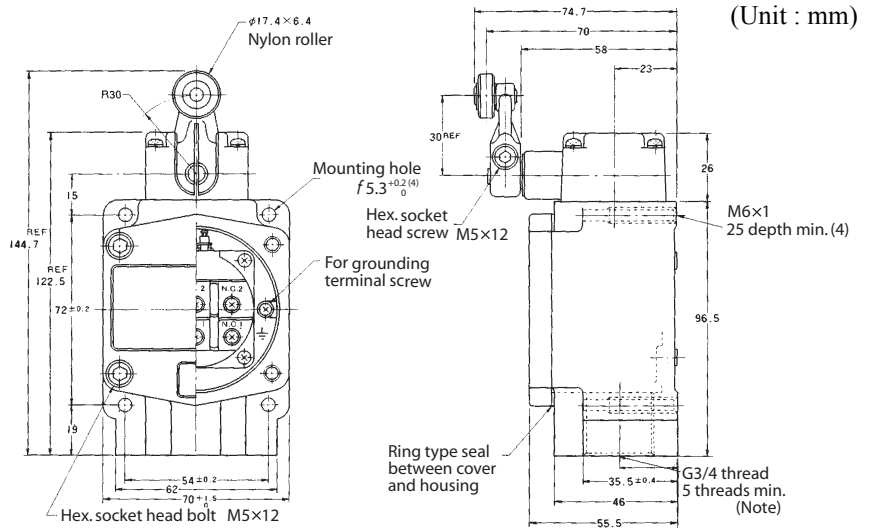
Direction of head installation

- The central-neutral type can be set only by two directions for forward and for backward. Moreover, the operation of switch 1 and 2 reverse in case of the backward.
- The 2-circuit simultaneous can be set also in the direction of four directions.

DIMENSIONS

Roller lever

O.F. (max.)	15.7 N
R.F. (min.)	2.2 N
P.T. (max.)	10° (VCL-5001)
	12° (VCL-5101)
M.D. (max.)	3°
O.T. (min.)	35°

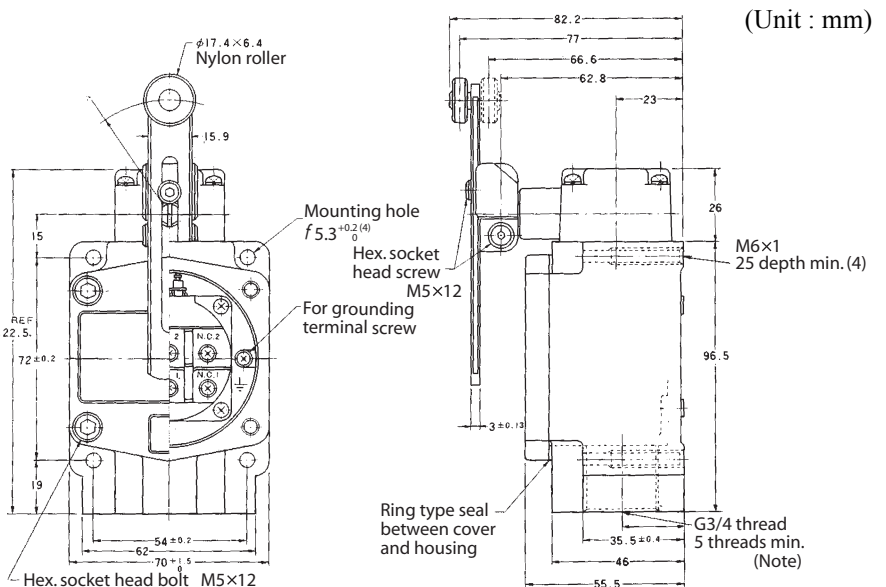


Do not scale print tolerances ±0.8

Adjustable lever

O.F. (max.)	15.7 N *
R.F. (min.)	2.2 N *
P.T. (max.)	10° (VCL-5001)
	12° (VCL-5101)
M.D. (max.)	3°
O.T. (min.)	35°

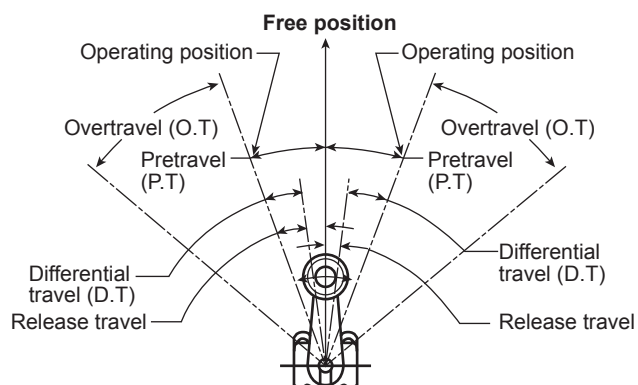
Note *: When the length of the lever is 30 mm.



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Note) The hole cap adheres to the G3/4 screw of conduit part, because it is kept the seal until wiring work.

Operating Characteristics



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Specifications are subject to change without notice.

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