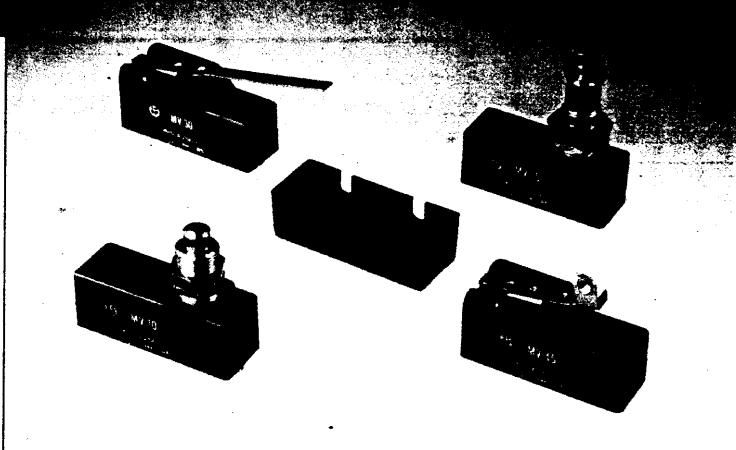


General purpose microswitches for heavier duty applications.

- High precision snap action mechanism
- 16A 250V AC resistive rating
- Wide range of actuator styles
- Screw terminals with cup washers
- All fixing and operating dimensions conform to industry standard
- Terminal covers available



Dimensions and operating details

MV **40**

Dimensions in mm. Metric units. Dimensions shown are for MV40 model. Other models have similar dimensions.

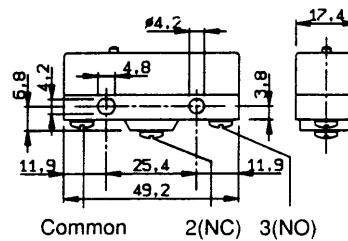
Dimensions

Contact form	Single pole, change over
Contact material	Contacts: Silver Snap action mechanism: Berillium copper
Contact Gap	0.5mm
Initial contact resistance	15mΩ max
Lever/plunger material	Stainless steel
Roller material	Lever type: thermoplastic Plunger type: Stainless steel
Housing material	Self extinguishing, glass reinforced thermoplastic resin
Dielectric strength	2000V AC 50/60Hz for 1 minute between current carrying parts and ground 750V AC 50/60Hz for 1 minute between open contacts
Protection rating	IP40 with terminal cover
Ambient operating temperature	-20 to +85°C
Ambient humidity	85% RH max
Mechanical life	20 million operations
Maximum operating frequency	6000/hour

Connections

Resistive load	16A 250V AC
	6A 24V DC
	0.4A 125V DC
Motor load	5A 250V AC
Inrush current	30A maximum

Terminal arrangement



Glossary

The following is a glossary of terms used in specifying actuator characteristics overleaf:

Operating force (OF)
The force applied to the actuator required to operate the switch contacts.

Releasing force (RF)
The value to which the force on the actuator must be reduced to allow the contacts to return to the normal position.

Total force (TF)
The force applied to the actuator required to reach the stopper from the free position.

Free position (FP)
The initial position of the actuator when there is no external force applied.

Operating position (OP)
The position of the actuator at which the contacts snap to the operated contact position measured with respect to the centres of the mounting holes.

Releasing position (RP)
The position of the actuator at which the contacts snap from the operated contact position to their normal position.

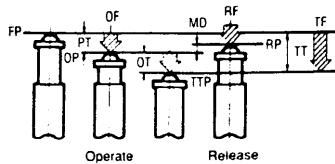
Total travel position (TTP)
The position of the actuator when it reaches the limit of travel - must not be exceeded.

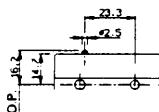
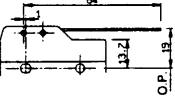
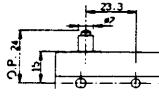
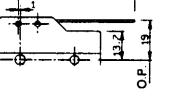
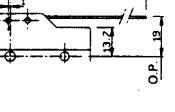
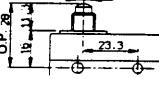
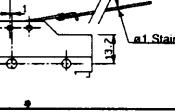
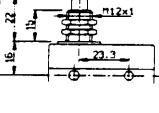
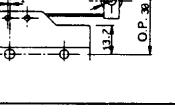
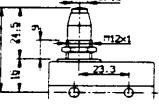
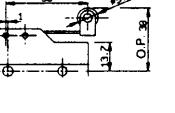
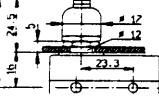
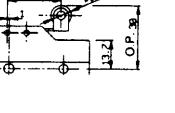
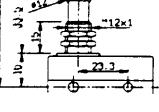
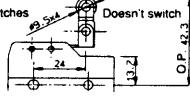
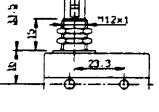
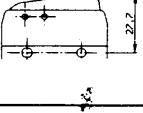
Prettravel (PT)
The distance or angle through which the actuator moves from the free position to the operating position.

Overttravel (OT)
The distance or angle of the actuator movement beyond the operating position.

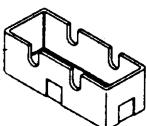
Movement differential (MD)
The distance or angle from the operating position to the releasing position.

Total travel (TT)
The sum of the prettravel and overtravel expressed by distance or angle.

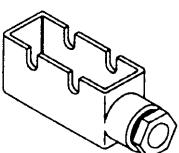


 <p>MV01</p> <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 0.2 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV30</p> <p>O.F. = 50 gr. max. R.F. = 30 gr. min. P.T. = 10 mm. max. O.T. = 6 mm. min. M.D. = 1.5 mm. max.</p>
 <p>MV03</p> <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 1.5 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV32</p> <p>O.F. = 60 gr. max. R.F. = 40 gr. min. P.T. = 8 mm. max. O.T. = 5 mm. min. M.D. = 1 mm. max.</p>
 <p>MV05</p> <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 1.5 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV35</p> <p>O.F. = 32 gr. max. R.F. = 26 gr. min. P.T. = 20 mm. max. O.T. = 15 mm. min. M.D. = 4 mm. max.</p>
 <p>MV06</p> <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 2 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV37</p> <p>O.F. = 10 gr. max. R.F. = 5 gr. min. P.T. = 20 mm. max. O.T. = 10 mm. min. M.D. = 4 mm. max.</p>
 <p>MV10</p> <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 5.5 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV40</p> <p>O.F. = 60 gr. max. R.F. = 40 gr. min. P.T. = 8 mm. max. O.T. = 5 mm. min. M.D. = 1 mm. max.</p>
 <p>MV12</p> <p>O.F. = 550 gr. max. R.F. = 400 gr. min. P.T. = 1 mm. max. O.T. = 5 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV42</p> <p>O.F. = 80 gr. max. R.F. = 50 gr. min. P.T. = 6 mm. max. O.T. = 3 mm. min. M.D. = 0.8 mm. max.</p>
 <p>MV13</p> <p>O.F. = 800 gr. max. R.F. = 650 gr. min. P.T. = 1 mm. max. O.T. = 5 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV45</p> <p>O.F. = 110 gr. max. R.F. = 70 gr. min. P.T. = 3.5 mm. max. O.T. = 2.5 mm. min. M.D. = 0.6 mm. max.</p>
 <p>MV15</p> <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 5.5 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV47</p> <p>O.F. = 110 gr. max. R.F. = 70 gr. min. P.T. = 3.5 mm. max. O.T. = 2.5 mm. min. M.D. = 0.6 mm. max.</p>
 <p>MV17</p> <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 5.5 mm. min. M.D. = 0.05 mm. max.</p>	 <p>MV49</p> <p><i>Hand operation</i></p>

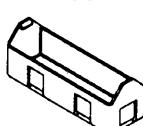
Terminal covers

CO1


Low profile terminal cover retained by switch fixing screws with knock-outs for cable entry moulded from glass reinforced thermoplastic.

CO2


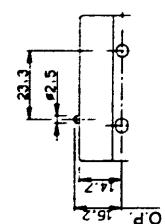
Terminal cover retained by switch fixing screws moulded from glass reinforced shatterproof thermoplastic with P.G.9 cable gland.

CO3


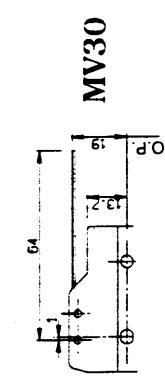
Snap-on terminal cover with knock-outs for cable entry.

JIVU

MV

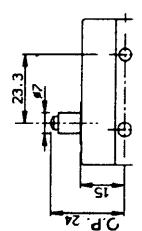


O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 0.2 mm. min.
M.D. = 0.05 mm. max.

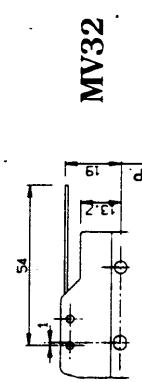


MV01

O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 0.2 mm. min.
M.D. = 0.05 mm. max.

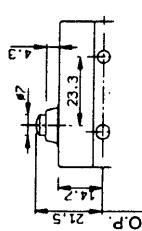


O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 1.5 mm. min.
M.D. = 0.05 mm. max.

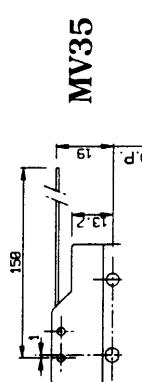


MV03

O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 1.5 mm. min.
M.D. = 0.05 mm. max.

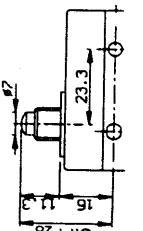


O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 1.5 mm. min.
M.D. = 0.05 mm. max.

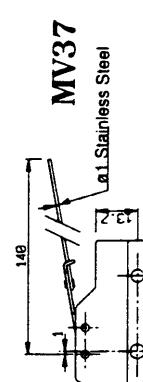


MV05

O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 1.5 mm. min.
M.D. = 0.05 mm. max.

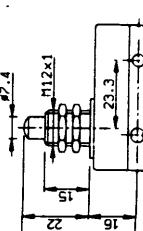


O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 2 mm. min.
M.D. = 0.05 mm. max.

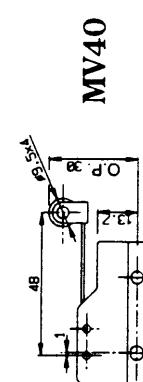


MV06

O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 2 mm. min.
M.D. = 0.05 mm. max.



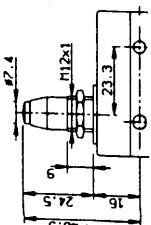
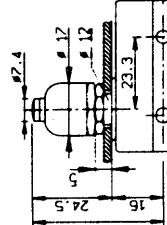
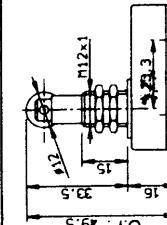
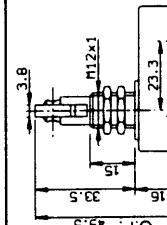
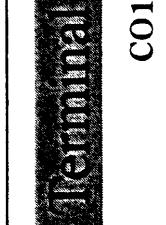
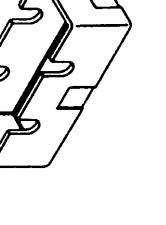
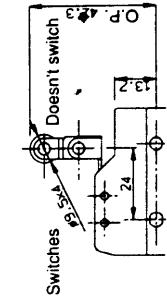
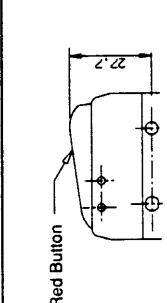
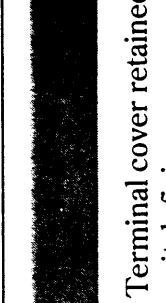
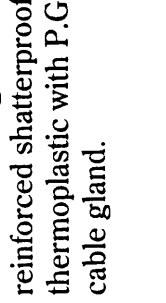
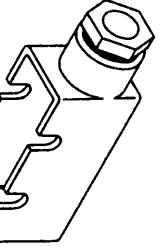
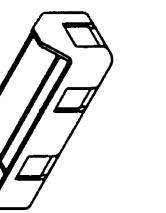
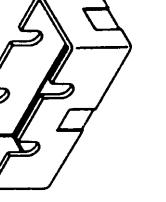
O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 5.5 mm. min.
M.D. = 0.05 mm. max.



MV10

O.F. = 350 gr. max.
R.F. = 200 gr. min.
P.T. = 0.5 mm. max.
O.T. = 5.5 mm. min.
M.D. = 0.05 mm. max.

*
**

 <p>CO1</p> <p>Low profile terminal cover retained by switch fixing screws with knock-outs for cable entry moulded from glass reinforced thermoplastic.</p>	<p>MV12</p>  <p>O.F. = 550 gr. max. R.F. = 400 gr. min. P.T. = 1 mm. max. O.T. = 5 mm. min. M.D. = 0.05 mm. max.</p>	<p>MV42</p>  <p>O.F. = 800 gr. max. R.F. = 650 gr. min. P.T. = 1 mm. max. O.T. = 5 mm. min. M.D. = 0.05 mm. max.</p>	<p>MV13</p>  <p>O.F. = 800 gr. max. R.F. = 650 gr. min. P.T. = 1 mm. max. O.T. = 5 mm. min. M.D. = 0.05 mm. max.</p>	<p>MV45</p>  <p>O.F. = 110 gr. max. R.F. = 70 gr. min. P.T. = 3.5 mm. max. O.T. = 2.5 mm. min. M.D. = 0.6 mm. max.</p>
<p>MV15</p>  <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 5.5 mm. min. M.D. = 0.05 mm. max.</p>	<p>MV47</p>  <p>O.F. = 110 gr. max. R.F. = 70 gr. min. P.T. = 3.5 mm. max. O.T. = 2.5 mm. min. M.D. = 0.6 mm. max.</p>	<p>MV49</p>  <p>O.F. = 110 gr. max. R.F. = 70 gr. min. P.T. = 3.5 mm. max. O.T. = 2.5 mm. min. M.D. = 0.6 mm. max.</p>	<p>MV17</p>  <p>O.F. = 350 gr. max. R.F. = 200 gr. min. P.T. = 0.5 mm. max. O.T. = 5.5 mm. min. M.D. = 0.05 mm. max.</p>	<p>MV49</p>  <p>O.F. = 110 gr. max. R.F. = 70 gr. min. P.T. = 3.5 mm. max. O.T. = 2.5 mm. min. M.D. = 0.6 mm. max.</p>
<p>Terminal covers</p>	<p>CO2</p>  <p>Terminal cover retained by switch fixing screws moulded from glass reinforced shatterproof thermoplastic with P.G.9 cable gland.</p>	<p>CO3</p>  <p>Snap-on terminal cover with knock-outs for cable entry.</p>	<p>CO1</p>  <p>Low profile terminal cover retained by switch fixing screws with knock-outs for cable entry moulded from glass reinforced thermoplastic.</p>	<p>CO3</p>  <p>Snap-on terminal cover with knock-outs for cable entry.</p>

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 Tel. 081-452 6444, Telex 28514 IMO G, Fax. 081 450 2274.

