

## GENERAL-PURPOSE MICRO SWITCHES Z-20,Z-25 SERIES

### Definitions of Operating Characteristics

- OF Operating Force
- RF Releasing Force
- OT Overtravel
- TT Total Travel
- PT Pretravel
- MD Movement Differential
- OP Operating Position
- PO Travel to Positive Opening

### Specifications

Operating Speed	0.01mm-1m/sec	
Operating Frequency	Mechanical: 240ops/min	Electrical: 20 ops/min
Insulation Resistance	>100MΩ@500V DC	
Contact Resistance	<15mΩ (initial value)	
Rated Current/Voltage	Z-20G:20A,125/250/480VAC; 1.5HP/125VAC or 2HP/250VAC Z-25G:25A,125/250/480VAC; 1.5HP/125VAC or 2HP/250VAC	
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts	
Service Life	Mechanically 1.0 x10 <sup>7</sup> (operations) Electrically 5 x10 <sup>5</sup> (operations)	
Operating Temperature	-25~+80°C (-13~176°F)	
Humidity	< 95%RH	
Degree of Protection	IP00/IP63	

### Dimensions Unit: mm

<p><b>Z-20G &amp; Z-25G</b></p> <p>Operating Characteristics</p> <ul style="list-style-type: none"> <li>● OF 3.89*6.11N</li> <li>● RF(Min) 2.78N</li> <li>● PT(Max) 1.3mm</li> <li>● OT(Min) 0.25mm</li> <li>● MD 0.05*0.2mm</li> <li>● OP 16.27*0.4mm</li> </ul>	<p><b>Z-20GD &amp; Z-25GD</b></p> <p>Operating Characteristics</p> <ul style="list-style-type: none"> <li>● OF 3.89*6.11N</li> <li>● RF(Min) 2.78N</li> <li>● PT(Max) 1.3mm</li> <li>● OT(Min) 3.0mm</li> <li>● MD 0.05*0.2mm</li> <li>● OP 26.2*0.5mm</li> </ul>
<p><b>Z-20GW &amp; Z-25GW</b></p> <p>Operating Characteristics</p> <ul style="list-style-type: none"> <li>● OF(Max) 0.7N</li> <li>● RF(Min) 0.14N</li> <li>● PT(Max) 15.9mm</li> <li>● OT(Min) 1.98mm</li> <li>● MD(Max) 2.77mm</li> <li>● OP 19.1*0.8mm</li> </ul>	<p><b>Z-20GW1 &amp; Z-25GW1</b></p> <p>Operating Characteristics</p> <ul style="list-style-type: none"> <li>● OF(Max) 1.6N</li> <li>● RF(Min) 0.4N</li> <li>● PT(Max) 6.5mm</li> <li>● OT(Min) 1.2mm</li> <li>● MD(Max) 1.2mm</li> <li>● OP 19.1*0.8mm</li> </ul>
<p><b>Z-20GW2 &amp; Z-25GW2</b></p> <p>Operating Characteristics</p> <ul style="list-style-type: none"> <li>● OF(Max) 0.97N</li> <li>● RF(Min) 0.14N</li> <li>● PT(Max) 11.9mm</li> <li>● OT(Min) 1.52mm</li> <li>● MD(Max) 2.16mm</li> <li>● OP 30.2*0.8mm</li> </ul>	<p><b>Z-20GW22 &amp; Z-25GW22</b></p> <p>Operating Characteristics</p> <ul style="list-style-type: none"> <li>● OF(Max) 1.67N</li> <li>● RF(Min) 0.42N</li> <li>● PT(Max) 6.35mm</li> <li>● OT(Min) 0.76mm</li> <li>● MD(Max) 1.14mm</li> <li>● OP 30.2*0.8mm</li> </ul>

## GENERAL-PURPOSE MICRO SWITCHES Z-20,Z-25 SERIES

**Z-20GQ22 & Z-25GQ22**

Operating Characteristics

● OF	3.89* 6.11N	● OT(Min)	3.58mm
● RF(Min)	2.78N	● MD	0.05*0.2m m
● PT(Max)	1.3mm	● OP	33.4*1.2m m

**Z-20GQ21 & Z-25GQ21**

Operating Characteristics

● OF	3.89* 6.11N	● OT(Min)	3.58mm
● RF(Min)	2.78N	● MD	0.05*0.2m m
● PT(Max)	1.3mm	● OP	33.4*1.2m m

**Z-20GQ & Z-25GQ**

Operating Characteristics

● OF	3.89* 6.11N	● OT(Min)	5.56mm
● RF(Min)	2.78N	● MD	0.05*0.2m m
● PT(Max)	1.3mm	● OP	21.8*0.8m m