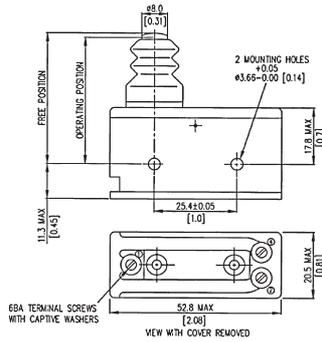


**Enclosed Terminals  
Plastic Cased Microswitch**

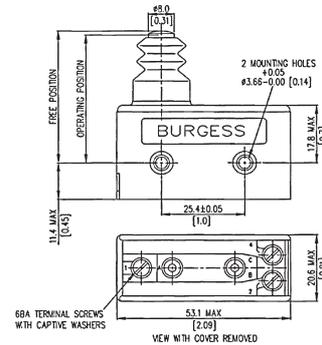


Two plastic case single pole changeover, snap action switches featuring enclosed screw terminals with access via a removable insulated cover. Cowl plunger and sealed to either IP54 or IP67 (except terminals).

Electrical rating 15 A at 250 VAC, 2 A at 30 VDC (resistive)  
 Contacts / Material Single pole changeover / Silver  
 Mechanical life 10<sup>6</sup>  
 Temperature -10° C to +85° C  
 IP Rating IP54 (3BR103), IP67 (3BR510)  
 Housing / Plunger Phenolic / Stainless steel  
 Operating force.N 7.2  
 Release force.N 1.7  
 Free position.mm 40.7  
 Tripping point.mm 39.3  
 Differential travel.mm 0.08  
 Overtravel.mm 4.6  
 Operating characteristics are specified from mounting holes  
 Approvals CSA

Stock No.	Manf Ref'	Type	Unit Price		
			1-9	10-49	50-99
2191366	3BR103	IP54	11.71	10.54	8.96
2191369	3BR510	IP67	13.21	11.89	10.11

**Enclosed Terminals  
Metal Cased Microswitch**

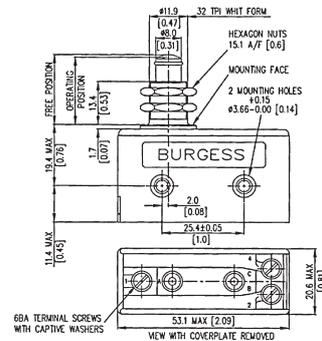


Two metal case single pole changeover, snap action switches featuring enclosed screw terminals with access via a removable insulated cover. Cowl plunger and sealed to either IP54 or IP67 (except terminals). Also available with a flat long auxiliary actuator, please order separately.

Electrical rating 15 A at 250 VAC, 2 A at 30 VDC (resistive)  
 Contacts / Material Single pole changeover / Silver  
 Mechanical life 10<sup>6</sup>  
 Temperature -10° C to +85° C  
 IP Rating IP54 (4BR), IP67 (4BR510)  
 Housing / Plunger Zinc base alloy / Stainless steel  
 Operating force.N 7.2  
 Release force.N 1.7  
 Pre-travel.mm 1.5  
 Differential travel.mm 0.08  
 Overtravel.mm 4.6  
 Approvals CSA

Stock No.	Manf Ref'	Type	Unit Price		
			1-9	10-49	50-99
2191372	4BR	IP54	16.51	14.86	12.63
2191375	4BR510	IP67	18.16	16.34	13.89
2191459	CBL	ACTUATOR	Consult for Price		

**Hole Mounted, Plunger  
Metal Cased Microswitch**

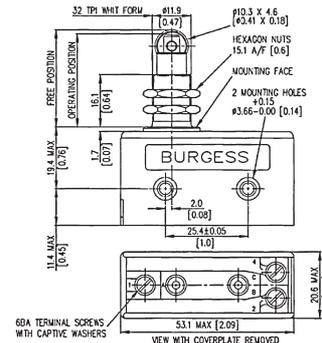


A hole mounted metal case single pole changeover, snap action switches featuring enclosed screw terminals with access via a removable insulated cover. Available with a plain plunger actuator.

Electrical rating 15 A at 250 VAC, 2 A at 30 VDC (resistive)  
 Contacts / Material Single pole changeover / Silver  
 Mechanical life 10<sup>4</sup>  
 Temperature -10° C to +85° C  
 IP Rating IP40  
 Housing / Plunger Zinc base alloy / Mild steel zinc plate  
 Operating force.N 2.8  
 Release force.N 1.1  
 Free position.mm 21.8  
 Tripping point.mm 21  
 Differential travel.mm 0.05  
 Overtravel.mm 3.56  
 Operating characteristics are specified from mounting face  
 Approvals CSA

Stock No.	Manf Ref'	Type	Unit Price		
			1-9	10-49	50-99
2191387	4CRQ	PLUNGER	Consult for Price		

**Hole Mounted, Roller  
Metal Cased Microswitch**



A hole mounted metal case single pole changeover, snap action switches featuring enclosed screw terminals with access via a removable insulated cover. Available with a roller plunger actuator.

Electrical rating 15 A at 250 VAC, 2 A at 30 VDC (resistive)  
 Contacts / Material Single pole changeover / Silver  
 Mechanical life 10<sup>4</sup>  
 Temperature -10° C to +85° C  
 IP Rating IP40  
 Housing / Plunger Zinc base alloy / Mild steel zinc plate  
 Operating force.N 2.8  
 Release force.N 1.1  
 Free position.mm 30.1  
 Tripping point.mm 29.3  
 Differential travel.mm 0.05  
 Overtravel.mm 3.56  
 Operating characteristics are specified from mounting face  
 Approvals CSA

Stock No.	Manf Ref'	Type	Unit Price		
			1-9	10-49	50-99
2191390	4CRQR	ROLLER	Consult for Price		