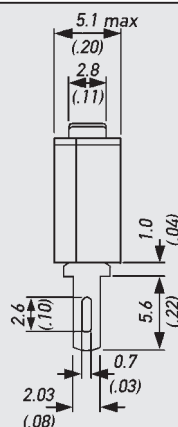


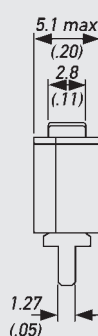
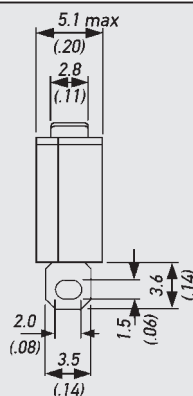


Technical drawing of a Burgess component. The drawing shows a rectangular plate with a central label "Burgess". Dimensions are given in inches and millimeters (in parentheses). The component has two mounting holes, each with a diameter of $\varnothing 2.25^{+0.1}_{-0.0}$ (inches) or $\varnothing 57.15^{+2.54}_{-0.00}$ (mm). The mounting holes are spaced 5.08 inches (129.54 mm) apart. The component has a total width of 12.8 inches (325.12 mm) and a total height of 7.6 inches (193.04 mm). The mounting holes are located 2.35 inches (59.65 mm) from the bottom edge. The component has a central slot with a width of 3.4 inches (86.36 mm) and a depth of 1.6 inches (40.64 mm). The component has a total thickness of 0.50 inches (12.70 mm). The component has a total weight of 1.0 lb (0.45 kg).



The use of a double pivot mechanism provides a wiping action of the contacts to improve weld-breaking capability. The proven high capacity stainless steel coil spring mechanism provides maximum service life and reliability.

The F4 range is designed for side mounting with two M2 screws. The much-reduced size of the F5 is achieved by the omission of mounting holes. It is intended for use on printed circuit boards.

[illegible]

Specifications

Housing:
Glass fibre reinforced Polyamide (PA 6.6)

Plunger:
Polyamide (PA 6.6)

Mechanism:
Double pivot, snap-action coil spring mechanism with stainless steel spring.
Single pole changeover or normally open

Contacts:
Fine silver
Gold plate on silver

Terminals:
F4T6: 2.0 mm faston
F4T7: Solder
F5T8: PCB
All terminals are gold flashed.

Temperature Range:
-40°C to +85°C

Mechanical Life:
10⁷ cycles minimum (impact free actuation)

Type of protection:
Enclosure – IP40

Mounting:
F4: Side mounting
F5: PCB

Actuators:
Plain lever; Cam follower

Accessories:
Lug mounting frame, insulating sheet, spring-leaf actuator

Approvals:
UL; CSA;

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
VAC	A	A
125 250	5 5	5 5

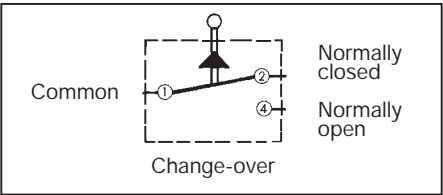
Gold-plated contacts are intended for use in signal circuits where the energy being switched is at the milliwatt level. Power being switched must be limited in order to avoid overheating and possible dispersal of the gold from the contact area.

See also page 5.

Recommended Max. Electrical Ratings		
Voltage	Resistive load	Inductive load
VDC	A	A
up to		
30	5	5
50	2	2
75	1	1
125	0.5	0.06
250	0.25	0.03

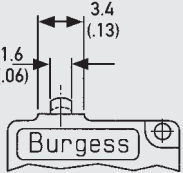
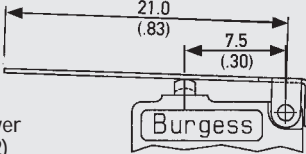
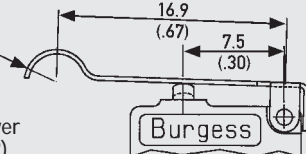
The breaking capacities in the table refer to silver contacts. For gold contacts see the text above right.

Circuit diagram F4/F5



Product Range
Operating Characteristics

F4
F5

Actuator	Reference	Actuating Force Maximum N (ozf)	Release Force Minimum N (ozf)	Free Position Maximum mm (in)	Operating Position mm (in)	Movement Differential Maximum mm (in)	Over Travel
Plunger 	F5 T8 F4T6 } F4T7 }	1.4 (5) 1.4 (5)	0.25 (0.9) 0.25 (0.9)	9.5 (0.37) 8.8 (0.35)	8.75 (0.34) ± 0.3 (± 0.012) 8.1 (0.32) + 0.3/-0.2 (+0.01/-0.008)	0.13 (0.005) 0.13 (0.005)	Flush with case. The case should not be used as an end stop.
Y1-Lever  Width of lever 3.0 mm (.12)	F5T8Y1 F4T6Y1 } F4T7Y1 }	0.6 (2.2) 0.6 (2.2)	0.07 (0.25) 0.07 (0.25)	10.7 (0.42) 10.0 (0.39)	8.8 (0.35) ± 1.1 (± 0.04) 8.2 (0.32) + 1.0/-0.7 (+0.04/-0.03)	0.7 (0.03) 0.7 (0.03)	
YC-Lever R 2.4 (09)  Width of lever 3.0 mm (.12)	F5T8YC F4T6YC } F4T7YC }	0.7 (2.5) 0.7 (2.5)	0.09 (0.32) 0.09 (0.32)	12.4 (0.49) 11.7 (0.46)	10.9 (0.43) ± 0.85 (± 0.03) 10.3 (0.41) + 0.8/-0.55 (+0.03/-0.02)	0.45 (0.02) 0.45 (0.02)	

Datum for Free Position and Operating Position

F4 – Centre of fixing hole

F5 – Terminal shoulder

Ordering References

F4
F5

Switch range: <div>F4 Side mounting</div> <div>F5 PCB mounting</div>	
Terminal type T6 = Faston T7 = Solder T8 = PCB see page 12	
Circuit No symbol = Changover C2 Normally closed* C4 Normally open *(F4 only)	
Actuators No symbol = Plunger Y1 Plain lever 21.0 mm (.83 in) YC Cam follower 16.9 mm (.67 in)	
Contacts No symbol = Fine silver GP Gold plate on silver	