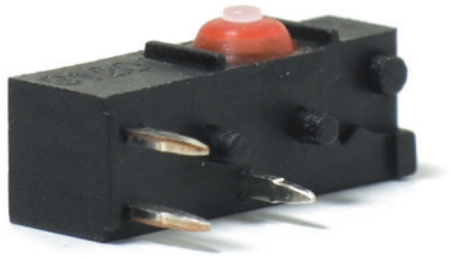
F1NS

Characteristics	■ small size ■ low current ■ long mechanical life ■ PCB mounting ■ sealed IP54 (option)
Rating	Up to 250 VAC, 1 A
Dimensions (mm)	14.6 × 6.5 × 6
Actuator	■ plunger ■ plain lever ■ simulated roller lever/cam follower
Approvals	none



Preferred Range

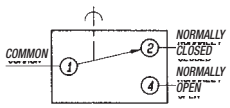
Ordering Reference	Actuating Force (N)	(ozf)	Sealing	Operating pos. (mm)	Terminal	Circuit	Actuator	Contacts	Electrical rating
F1NST8	2,0	7,2	IP5K4	5,9	PCB	CO	Plunger	Ag	250 VAC, 1 A
F1NST8A1	0,6	2,2	IP5K4	7,6	PCB	CO	Plain lever	Ag	250 VAC, 1 A
F1NST8AC	0,6	2,2	IP5K4	10,1	PCB	CO	Cam follower	Ag	250 VAC, 1 A

F1NS

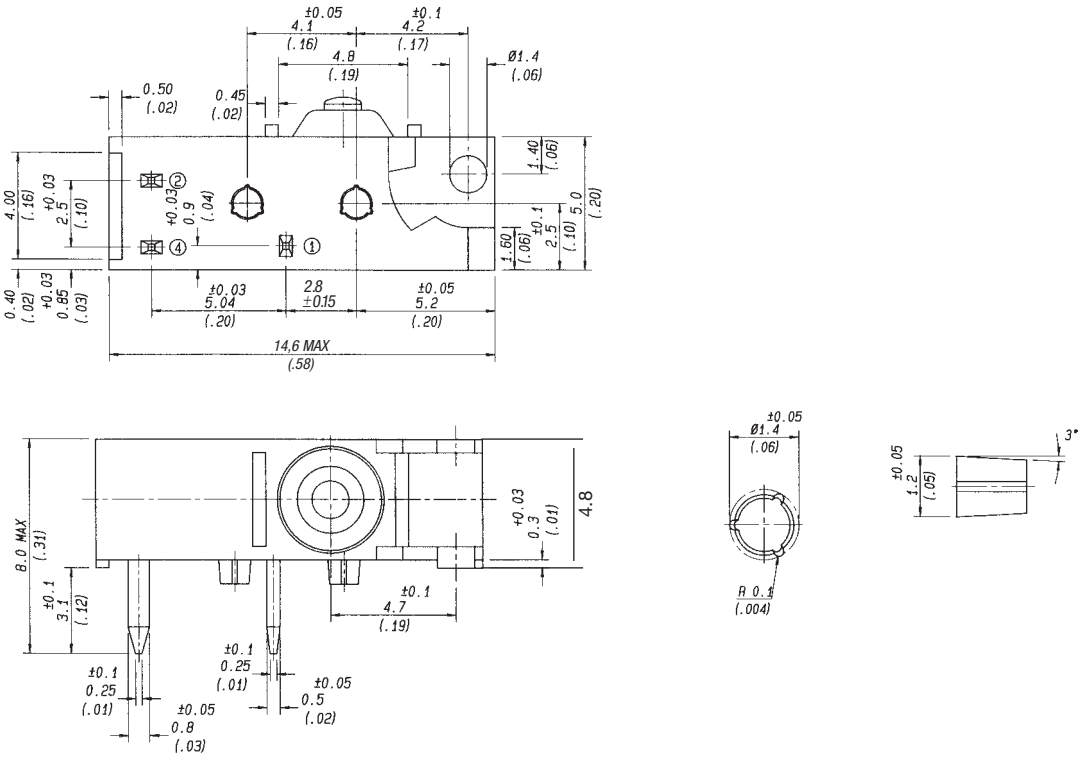
Specifications

Housing	Base: PA 6.6; Cowl: Silicon; Lid: PA 6.6
Plunger	POM
Mechanism	Snap-action, coil spring mechanism with stainless steel spring. Single-pole change-over contact
Contacts	Fine silver, Gold plate on silver
Terminals	PCB - Phosphor Bronze silver plated
Temperature range °C	–40°C bis +85°C
Mechanical life	10^7 cycles minimum (impact-free actuation)
Protection	Enclosure IP40 (F1N), IP54 (F1NS)
Mounting	PCB. Locating pins on housing

Circuit diagram



Dimensions

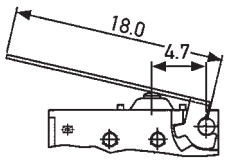


Recommended maximum electrical ratings

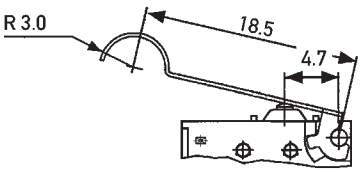
Voltage (VAC)	Resistive load (A)	Inductive load (A)	Voltage (VDC)	Resistive load (A)	Inductive load (A)
125	1	1	up to		
250	1	1	30	2	2
			50	0,5	0,5
			75	0,25	0,25
			125	0,2	0,03

Operating Characteristics

	Actuator	Reference	Actuating Force Maximum (N)	(ozf)	Release Force Minimum (N)	(ozf)	Free Position (mm)	(in)	Operating Position Maximum (mm)	(in)	Movement Differential Maximum (mm)	(in)	Total travelled position Maximum (mm)	(in)
Plunger		F1NST8	2	7,20	0,2	0,72	6,5	0,26	5,9 ± 0,2	0,23 ± 0,008	0,2	0,008	*	
A1-Lever		F1NST8A1	0,6	2,20	0,09	0,32	10,5	0,41	7,6 ± 1,2	0,3 ± 0,05	0,7	0,03	*	
AC-Lever		F1NST8AC	0,6	2,20	0,09	0,32	13,3	0,52	10,1 ± 1,2	0,4 ± 0,05	0,7	0,03	*	



Width of lever 3 mm/0,12 in



Width of lever 3 mm/0,12 in

Datum for Free Position and Operating Position: base of switch opposite plunger.

* Flush with case. The case should not be used as an end stop.

Ordering Reference

Example: F1N | S | T8 | A | AU

Basic type	F1N	
Type of sealing		No symbol, unsealed
	S	Sealed IP5K4
Terminals	T8	PCB 0.8 × 0.5 × 3.45 long
Circuit		No symbol, change-over
Actuators		No symbol, without lever
	A	Special lever A type (see specification)
	A1	Plain lever 18.0 mm
	AC	Cam follower lever 18.5 mm
Contact Material		No symbol, Ag
	AU	Gold on nickel
	GP	Gold plate on Ag (GP)
Special Features	/□□□□	Burgess specialise in customer specific solutions. Additional product variants are available or can be provided. If your requirements cannot be satisfied from the options listed, please contact us.