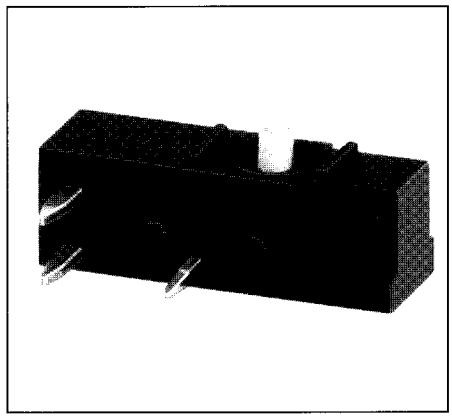
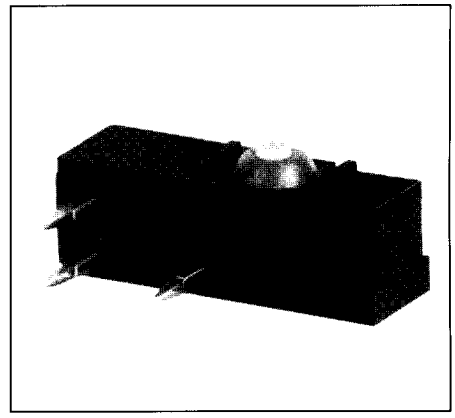
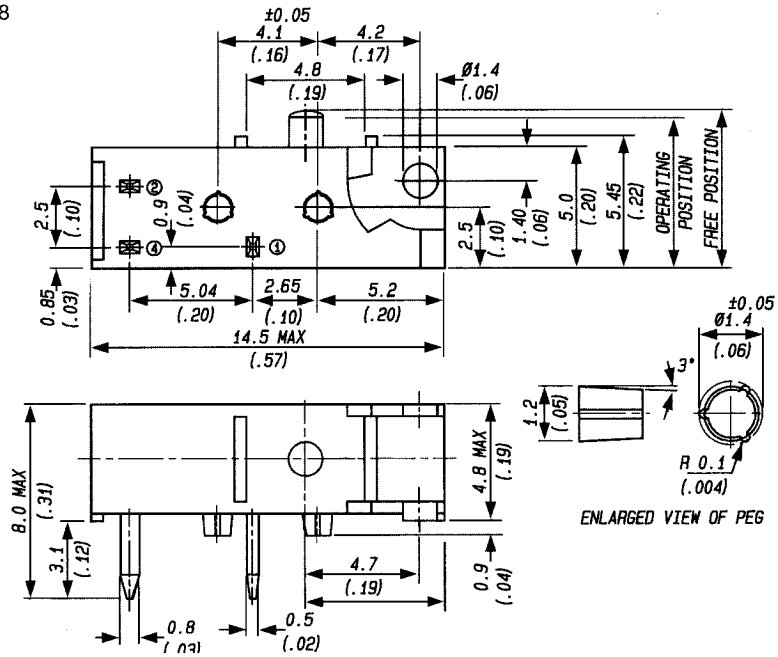
F1NT8/F1NST8-Series





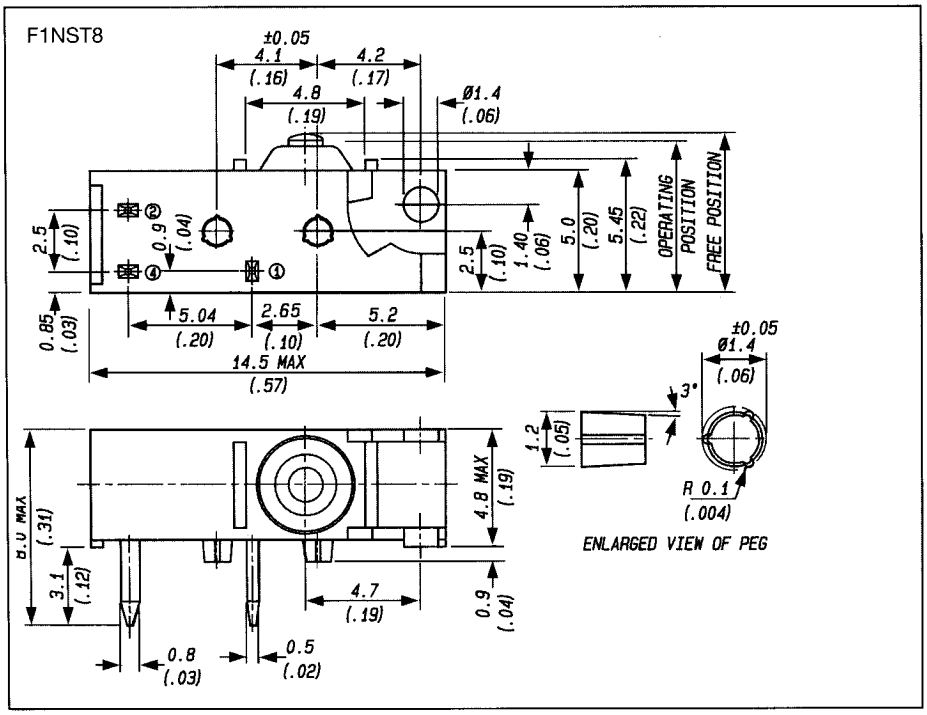
F1NT8



With the introduction of the F1NT8 and F1NST8, Burgess has once more set the standard for the miniaturisation of switching elements for electronic equipment.
The new ultra-miniature switches offer the user many advantages:

- 10% smaller than the F1T8
- Bonded case and lid joint
- Flux-proof terminal entries
- New lever design with height limit stop
- F1NST8 is fitted with plunger cowl for additional protection

F1NST8



Burgess

Specifications

F1NT8
F1NST8

Housing:
Glass fibre reinforced Polyamide (PA 6.6)

Plunger:
Polyacetal (POM)

Plunger Cowl:
FINST8 only - silicone elastomer

Mechanism:
Snap-action, coil spring mechanism with stainless steel spring. Single-pole changeover contact.

Contacts:
Fine silver
Gold plate on silver
Gold plate on nickel underlay

Terminals:
PCB silver plated

Temperature Range:
-40°C to +85°C (Higher temperatures possible consult Burgess)

Mechanical Life:
10^7 cycles minimum (impact-free actuation)

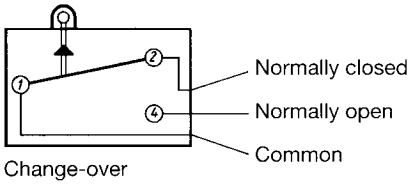
Type of Protection:
Enclosure IP40 (FINT8)
Enclosure IP54 (FINST8)

Mounting:
PCB. Locating pins on housing

Actuators:
Plain lever; Cam follower

Approvals:
UL,CSA

Circuit diagram
F1NT8/F1NST8



Change-over

Recommended Max. Electrical Ratings

Voltage	Resistive load	Inductive load
VAC	A	A
125	1	1
250	1	1

Recommended Max. Electrical Ratings

Voltage	Resistive load	Inductive load
VDC	A	A
up to		
30	2	2
50	0.5	0.5
75	0.25	0.25
125	0.2	0.03

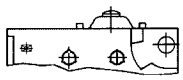
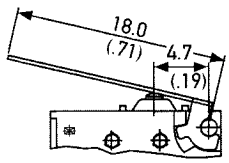
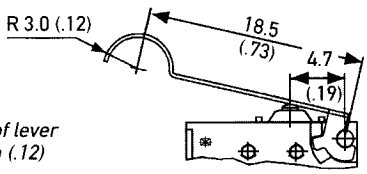
The breaking capacities in the table refer to silver contacts. For gold contacts see the text above right.

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.

Product Range
Operating Characteristics

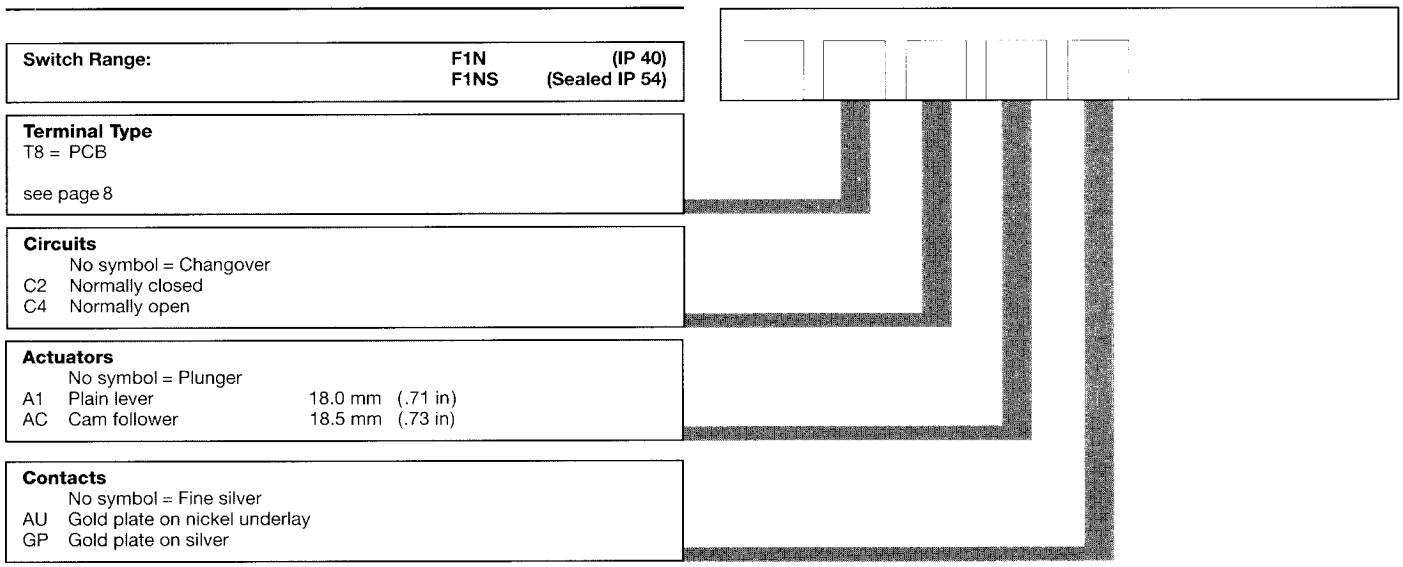
F1NT8
F1NST8

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 	F1NT8	1.5 (5.4)	0.2 (0.72)	6.5 (0.26)	5.9 (0.23) ± 0.2 (± 0.008)	0.18 (0.007)	Flush with case. The case should not be used as an end stop.
	F1NST8	2.0 (7.2)	0.3 (1.08)	6.5 (0.26)	5.9 (0.23) ± 0.2 (± 0.008)	0.18 (0.007)	
A1- Lever  *Width of lever 3.0 mm (.12)*	F1NT8A1	0.5 (1.8)	0.06 (0.22)	10.5 (0.41)	7.6 (0.30) ± 1.2 (±0.05)	0.7 (0.03)	
	F1NST8A1	0.6 (2.2)	0.09 (0.32)	10.5 (0.41)	7.6 (0.30) ± 1.2 (±0.05)	0.7 (0.03)	
AC- Lever  *Width of lever 3.0 mm (.12)*	F1NT8AC	0.5 (1.8)	0.06 (0.22)	13.3 (0.52)	10.1 (0.40) ± 1.2 (±0.05)	0.7 (0.03)	
	F1NST8AC	0.6 (2.2)	0.09 (0.32)	13.3 (0.52)	10.1 (0.40) ± 1.2 (±0.05)	0.7 (0.03)	

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

Ordering References

F1NT8
F1NST8



Switch Range:	F1N (IP 40) F1NS (Sealed IP 54)

Terminal Type
T8 = PCB

see page 8

Circuits

	No symbol = Changover
C2	Normally closed
C4	Normally open

Actuators

	No symbol = Plunger	
A1	Plain lever	18.0 mm (.71 in)
AC	Cam follower	18.5 mm (.73 in)

Contacts

	No symbol = Fine silver
AU	Gold plate on nickel underlay
GP	Gold plate on silver