



NTC THERMISTORS: TYPE F, FS

BEAD IN GLASS PROBE

DESCRIPTION:

Type F

Bead in glass probe* for temperature measurement and control, and flow measurement. Bead only situated in tip.

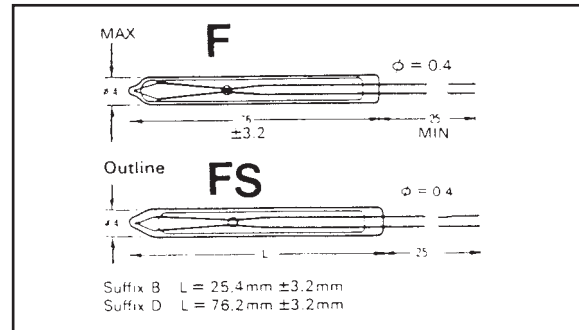
Type FS

Bead inside glass probe* for temperature measurement and control, and flow measurement. Bead and joints situated in tip.

* Compare outlines for difference in positioning of beads between types F and FS. Type FS is more robust but has a longer time constant making it less sensitive to rapid temperature changes.



DIMENSIONS:



DATA:

Resistance tolerance at 25°C..... ±20%

B value tolerance..... ±5%

Type F

LOW RESISTANCE TYPES:

T A max..... 200°C
 T B max..... 200°C
 P max (in air)..... 150m W
 (in water) 100m W

HIGH RESISTANCE TYPES:

T A max..... 300°C
 T B max..... 300°C
 P max (in air)..... 240m W
 (in water) 100m W
 k (in air)..... 0.85m W/°C
 (still water)..... 3.5mW/°C
 τ..... 5s in air
 Weight..... 1.8g

Code	R ₂₀ Ω	R ₂₅ Ω	R _{min} Ω	B ₂₅₋₈₅ K
F22D	low resistance types { 200, 2k, 5k	174	7	2500
F23D		1.68k	37	3050
F53D		4.15k	70	3250
F14D	high resistance types { 10k, 100k	8.20k	35	3400
F15D		80k	130	4000

Type FS

LOW RESISTANCE TYPES:

T A max..... 200°C
 T B max..... 200°C
 P max (in air)..... 230m W
 (in water) 100m W

HIGH RESISTANCE TYPES:

k..... 1.3m W/°C in air
 τ..... 20s in air
 Weight (Suffix B)..... 0.75g
 Weight (Suffix D)..... 1.8g
 T A max..... 300°C
 T B max..... 300°C
 P max (in air)..... 360m W
 (in water)..... 100m W

Code	R ₂₀ Ω	R ₂₅ Ω	R _{min} Ω	B ₂₅₋₈₅ K
FS22B,D	low resistance types { 200, 2k, 5k	174	7	2500
FS23B,D		1.68k	37	3050
FS53B,D		4.15k	70	3250
FS14B,D	high resistance types { 10k, 100k	8.20k	35	3400
FS15B,D		80k	130	4000



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DATA:

