

MECHANICAL TEMPERATURE SWITCHES

UFV729 Series

Mechanical Bimetal Temperature Switch



MEASUREMENT RANGE	40 to 130 °C set point
OUTPUT	NO / NC / NO + NC contacts
WETTED MATERIAL	Brass or stainless steel; custom options
PROTECTION	IP65 / IP67

PRODUCT OVERVIEW

The UFV729 Series uses a coiled bimetal element to actuate an internal mechanical switching mechanism at the selected temperature. The simple, power-independent sensing principle is suited to machinery and automation where a discrete temperature limit is required without electronic signal conditioning. Process connection, output contact, set point, probe geometry, material, and connector options can be configured for the installation.

KEY FEATURES

- Mechanical bimetal sensing with no external power required for the sensing mechanism
- Normally-open, normally-closed, or combined NO + NC contact configurations
- Set points from 40 to 130 deg C in 5 deg C increments
- Low-hysteresis switching for machinery and automation temperature limits
- Configurable process connections, probe lengths, probe diameters, and materials
- DIN 43650 or M12 electrical connection options with IP65/IP67 protection

TYPICAL APPLICATIONS

- Industrial machinery temperature limits
- Automation equipment
- Hydraulic and lubrication systems
- Compressors and pumps
- Overtemperature alarm and control circuits

TECHNICAL SPECIFICATIONS

Catalog values apply to the stated configuration. Final performance, materials, approvals, and connection details are confirmed on the quotation and controlled order documentation.

PARAMETER	SPECIFICATION
Switching set-point range	40 to 130 °C
Contact functions	Normally open, normally closed, or NO + NC
Hysteresis	10 °C ±4 °C
Accuracy	±3 °C
Permissible temperature	Selected set point ±50 °C
Maximum pressure	100 bar
Contact rating	230 VDC / 10 A as stated in the supplied catalog; confirm the controlled rating for the ordered configuration
Process connections	G1/2, G1/4, G3/8, R1/4, R3/8, R1/2, 1/4-18 NPT, 1/8 NPT, M10 x 1, M12 x 1, M12 x 1.5, M14 x 1.5, M20 x 1.5, or custom
Electrical connections	DIN 43650 plug, 360-degree rotatable DIN plug, or M12 x 1 4-pin male
Probe lengths	50, 100, or 150 mm examples; custom lengths available
Probe diameters	6, 8, or 10 mm
Body materials	Brass, stainless steel, or customer-specified material
Optional body thread	M22 x 1.5
Ingress protection	IP65 / IP67, configuration dependent

ORDERING INFORMATION

ORDER-CODE PATTERN

UFV729 [process] [electrical] - [contact] - [set point] - [probe] - [cable]

PROCESS CONNECTION

3 = G1/2-B | 6 = G1/4-A | 7 = G3/8-A | 8 = R1/4 | 0 = 1/4-18 NPT | C = M20 x 1.5 | D = M12 x 1 | E = M12 x 1.5 | F = M14 x 1.5 | G = 1/8 NPT | H = R3/8 | I = M10 x 1 | J = R1/2 | O = Custom

ELECTRICAL CONNECTION

8 = M12 x 1, 4-pin male | 0 = DIN 43650

CONTACT OUTPUT

2 = One normally-closed contact | 3 = One normally-open contact | 5 = Two contacts, NO + NC

SET POINT

30 = 30 deg C example; enter the required value in 5 deg C increments

PROBE LENGTH

No code = No probe, standard | 050 = 50 mm | 100 = 100 mm | 150 = 150 mm; length includes the threaded section

CABLE / CONNECTOR OPTION

002 = DIN plug, no cable | 022 = 2 m cable assembly | 052 = 5 m cable assembly

ORDERING NOTE

Please include the process medium, normal and maximum temperature, process connection, insertion length, electrical interface, required approvals, quantity, and installation constraints with the RFQ. CASCED US will validate the complete code before acceptance.