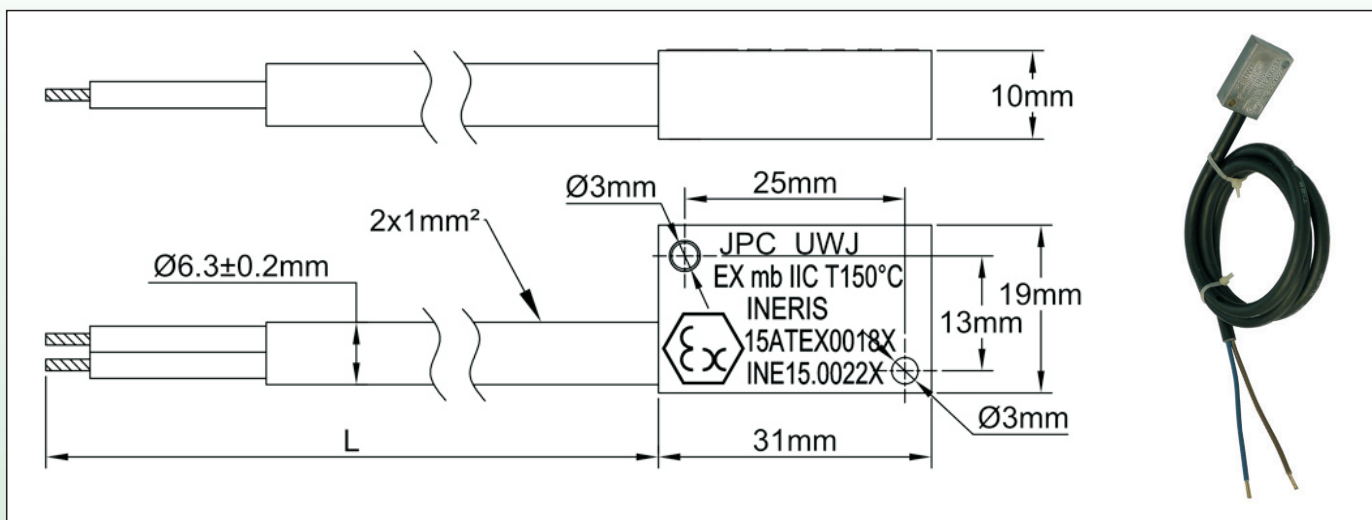




2015 New products Temperature limiter for explosive gas atmospheres. Type UWJ



Applications

Motor thermal protection, heat tracing, alarm and high temperature safety in explosive gas atmospheres.

Main features

Classification: Ex mb IIC (Testing certificates: ATEX INERIS 15ATEX0018X and IECEx INE15.0022X).

Ambient temperature limits on enclosure : -40 to +150°C

Comply with the following standards:

- EN 60079-0: 2012/A11:2013
- IEC60079-0: 2011
- EN 60079-18: 2009
- IEC 60079-18: 2009
- EN 60079-31: 2014
- IEC 60079-31: 2013

Operating principle: bimetal disc crossed by the current, and whose shape change activates an electrical snap action contact.

Enclosure: Zamac, 31mm x 19mm x 10mm. Ingress protection class IP65.

Mounting: by 2 holes dia.3mm

Set point: fixed factory set minimum 50°C maximum 150°C. (Calibration values are always zero current values).

Calibration tolerance: ± 5 °C on the opening temperature (± 3 °C on request)

Differential: fixed, not adjustable by the user. About 40°C at zero current.

Electrical rating: 9A 240VAC resistive, 3A, 240VAC inductive, 10,000 cycles. (13A resistive version is possible, consult us)

Current Sensitivity*: These devices are sensitive to the electrical intensity, and the cut-off temperature will be less than the nominal calibration temperature according to the table below:

Rating	3A	5A	7A	10A
Offset	-2.5°C	-5°C	-10°C	-20°C

Connection: by silicone insulated cable, 2 x 1 mm², O.D. 6.3mm. Withstands temperatures from -60 to + 180 °C. The cable shall be protected, during installation, against shocks and risks of mechanical destruction. The cable must be fixed so that there is no risk of tearing it off the thermostat. The electrical connection must be made according to the specifications of the zone (EN 60079-0). In function of the ambient temperature on the cable, the intensity must be less than the values below:

Maximum ambient temperature on the cable:

Temperature	120°C	140°C	170°C
Intensity	12A	9A	5.4A

Cable length: Can be cut on demand. Standard lengths: 1m, 3m, 5m

Short circuit tripping*: If an overcurrent occurs in the circuit, the thermostat contact will switch off automatically. The table below gives the response time in seconds of the thermostat according to its set point calibration and overcurrent. Measurements made at an ambient temperature of 20°C.

*Indicative values, they may vary depending on the installation characteristics. If these values are critical in the application, we recommend performing validation tests.

Temperature calibration	Trigger time					
	15A	20A	25A	30A	35A	40A
90	100s	30s	11s	5s	2.5s	1s
110	150s	40s	20s	8s	4s	2.5s
130	250s	80s	30s	12s	6.5s	4s
150	400s	150s	45s	18s	9s	6s

Main references

Cable length	Calibration temperature (±5°C)			
	90°C	110°C	130°C	140°C
1m	UWJZKP100905B00A	UWJZKP101105B00A	UWJZKP101305B00A	UWJZKP101405B00A
3m	UWJZKP300905B00A	UWJZKP301105B00A	UWJZKP301305B00A	UWJZKP301405B00A
6m	UWJZKP300905B00A	UWJZKP601105B00A	UWJZKP601305B00A	UWJZKP601405B00A

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice