

Fail-safe capillary temperature limiter in stainless steel enclosure (1.4404 / 316L) for use in hazardous area.

Mechanical Controllers Ex



- Compact design
- 16A/230V AC switching capacity
- Robust & rugged design
- 4/6mm sensor diameter
- Highly resistant to aggressive chemicals
- Wide temperature range of 0...+500°C

Description

The IB2M..VAEx series of fail-safe capillary thermostat consist of capillary type temperature limiter with mechanical change-over contacts in a robust and rugged stainless steel enclosure.

This robust enclosure is used in applications for controlling and connecting constant wattage heating tapes and heating cables in hazardous areas.

These stainless steel enclosures are approved according to ATEX, IECEx and NEMA4X and have proven themselves extremely well under harsh conditions and for food & hygienic areas.

Aggressive chemicals or severe mechanical impacts cannot harm or even damage these rugged & robust enclosures.



Technical Data

Permitted Ambient Temp.:	-55°C ... +50°C in T6
Material:	Stainless steel 1.4404 / 316L
Protection Class:	IP66
Dimensions (LxWxH in mm):	200 x 200 x 120

Marking

- II 2G Ex ed IIC T6
- II 2D Ex tb IIIC T80°C IP65

Certificates

ATEX, IECEx, EAC

Further Information

Please consult the installation instructions

Ordering Information

	IB2M	...	VAEx
Fail-safe temperature limiter			
Code temperature range (see code below)			
Stainless steel and Ex version			

Available Temperature Ranges

Limiters (Safety temperature limiter):	
Code: 1319	= +130...+190°C
Code: 0019	= 0...+190°C
Code: 0630	= +60...+300°C
Code: 1450	= +140...+500°C

Example

IB2M0630VAEx
(Limiter with temperature range: +60...+300°C)

Other temperature ranges available upon special request.

IB2M..VAEx

Additional Technical Data

Rated Voltage: 230V AC
(400V upon request)

Rated current (cos $\varphi = 1$): 16A
(25A upon request)

Switching point deviation:

Temperature Range in °C	Deviation (% of full scale)	Sensor Diameter (mm)
+130...+190°C	+0/-7	4
0...+190°C	+0/-7	4
+60...+300°C	+0/-7	6
+140...+500°C	+0/-7	6

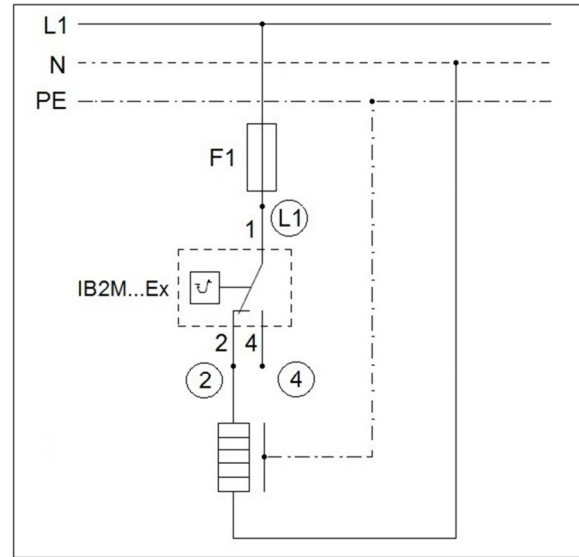
Max. permitted sensor temp.: +15% of full scale
or max. +25K

Capillary length: 1,000mm
(3,000mm upon request)

Bulb diameter: 4mm
Cable glands: 1x M25 Ni-plated brass
1x M20 blind plug

Terminal cross section: 0.5 – 6mm²
(Cage clamp type) (solid or stranded cable)
Weight: ca. 3.5kg

Typical Schematic



(L1) (2) (4) = Terminal idents

F1 = MCB (by others)

Internal Layout

