

# IB2M...Ex

Mechanical fail-safe protection temperature limiter for use in hazardous area.



Mechanical Controller Ex



- Compact design
- 16A/230V switching capacity
- Cross section 4/6mm<sup>2</sup>
- Sensor diameter 4/6mm
- Resistant to chemicals

## Description

The Ex-fail-safe protection temperature limiter devices of the IB2M-series are mechanical 2-point capillary temperature protection limiter.

The black glass fiber reinforced polyester enclosure is very rugged and serves as a connector for single core heating cables. The limiter can handle a switching capacity of 16A directly.

When exceeding the set temperature, the limiter switches off. The restart lockout gives additional safety, a manual reset is needed.



## Technical Data

Min. Ambient Temperature:	-55°C
Switching Capacity:	16A/230V (16A/400V and 25A/230V upon request)
Material:	Glass Fiber Reinforced Polyester
Protection Class:	IP66
Temperature Class:	T6 at +50°C

## Marking

II 2G Ex ed IIC T6  
 II 2D Ex tb IIIC T80°C IP66

## Approval

ATEX, IECEx, EAC

## Ordering Information

Part number:	
IB2M0719Ex	Temperature Range: +70°C..+190°C
IB2M1319Ex:	Temperature Range: +130°C..+190°C
IB2M0630Ex:	Temperature Range: +60°C..+300°C
IB2M1450Ex:	Temperature Range: +140°C..+500°C

Further temperature ranges upon request.

## Further Information

Please consult the installation instructions!

## Standard Versions

### Technical Data

Temperature Range (°C)	70-190	130-190	60-300	140-500
Rating Voltage (VAC)	230	230	230	230
Switching Cap. (cos φ = 1) (A)	16	16	16	16
Switching Diff. (%) of full scale value approx	-	-	-	-
Max. Sensor Temperature (°C)	225	215	325	525
Protection Class	IP66	IP66	IP66	IP66
Capillary Tube Length (mm)	1000	1000	1000	1000
Capillary Diameter (mm)	4	4	4	4
Dimensions LxWxH (in mm)	122x120x90	122x120x90	122x120x90	122x120x90
Cable Glands M20/M25	1/1	1/1	1/1	1/1
Clamping Zone M20/M25 (mm)	7-13/12-17	7-13/12-17	7-13/12-17	7-13/12-17
Cross Section (mm <sup>2</sup> )	4/6	4/6	4/6	4/6
Weight (kg)	1.2	1.2	1.2	1.2

### Wiring Diagram

