

# IRB2M...Ex

Combination of capillary temperature controller and limiter for use in hazardous area.



Mechanical Controller Ex



- Compact design
- 16A/230V switching capacity
- Cross section 4/6mm<sup>2</sup>
- 4/6mm sensor diameter
- Resistant against chemical influences

## Description

The Ex-Controller-/Limiter devices of the IRB2M-Series are a combination of mechanical 2-point capillary temperature controller/limiter. The black glass fiber enhanced polyester enclosure is very rugged and is used as a connector for single core heating cables.

The combination of controller and limiter allows an easy and space-saving application for electrical trace heating in hazardous areas. The sensors with 4mm outer-diameter are particularly suitable for mounting on pipelines or containers.



## Technical Data

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

## Marking

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

## Approval

ATEX, IECEx, EAC

## Further Information

Please consult the installation instructions!

## Ordering Information

Part number:

IRB2M-0205/0719Ex:	Controller: -20..50°C Limiter: 70..190°C
IRB2M0012/1319Ex:	Controller: 0..120°C Limiter: 130..190°C
IRB2M0019/1319Ex:	Controller: 0..190°C Limiter: 130..190°C
IRB2M0012/0719Ex:	Controller: 0..120°C Limiter: 70..190°C
IRB2M0019/0719Ex:	Controller: 0..190°C Limiter: 70..190°C
IRB2M0630/0630Ex:	Controller: 60..300°C Limiter: 60..300°C

Further temperature ranges available upon request.

## Standard Versions

### Additional Technical Data

Temperature Range (°C)	-20..50/70..190	0..120/130..190	0..190/130..190	0..120/70..190	0..190/70..190	60..300/60..300
Rating Voltage (VAC)	230	230	230	230	230	230
Switching Cap. (cos φ = 1) (A)	16	16	16	16	16	16
Switching difference (%) of Full Scale Value approx	7/-	7/-	7/-	7/-	7/-	7/-
Max. Sensor Temperature (°C)	80/220	145/220	220/220	145/220	220/220	345/345
Protection Class	IP66	IP66	IP66	IP66	IP66	IP66
Capillary Tube Length (mm)	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000
Capillary Diameter (mm)	6/4	4/4	4/4	4/4	4/4	6/6
Dimensions LxWxH (in mm)	220x120x90	220x120x90	220x120x90	220x120x90	220x120x90	220x120x90
Cable Glands M20/M25	2/1	2/1	2/1	2/1	2/1	2/1
Clamping Zone M20/M25 (mm)	7-13/12-17	7-13/12-17	7-13/12-17	7-13/12-17	7-13/12-17	7-13/12-17
Cross Section (mm²)	4/6	4/6	4/6	4/6	4/6	4/6
Weight (kg)	2	2	2	2	2	2

### Wiring Diagram

