

# IRBM....Ex

Combination of controller and limiter for use in hazardous area.

## Mechanical Controller Ex

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- Compact design
- Switching capacity 16A
- Protection class IP65
- 4mm sensor diameter
- Resistant against aggressive environment
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### Description

The Ex- Controller-/Limiter devices of the IRBM-Series are a combination of mechanical 2-point capillary temperature controller/limiter. The black glass-fibre reinforced polyester enclosure is very rugged and serves as a connector for single core heating cables, for which the use of a temperature limiter is a must. This combination of controller and limiter allows an easy and space-saving application for an electrical trace heating in hazardous areas. The sensors with 4mm outer-diameter are particularly suitable for mounting on pipelines or containers.



### Specification

Min. ambient temperature:	-20 °C
Temperature class:	T6 at +40 °C

### Marking

- Ⓔ II 2G EEx ed IIC T6
- Ⓔ II 2D Ex tD A21 IP65 T=80 °C

### Approval

EPS 09 ATEX 1237

### Further information

Please consult the installation instructions!

### Order information

Part number:	
IRBM0120/130190Ex:	Controller: 0..120 °C Limiter: 130..190 °C
IRBM0200/130190Ex:	Controller: 0..200 °C Limiter: 130..190 °C
IRBM0120/0200Ex:	Controller: 0..120 °C Limiter: 0..200 °C
IRBM0200/0200Ex:	Controller: 0..200 °C Limiter: 0..200 °C
IRBM50300/50300Ex:	Controller: 50..300 °C Limiter: 50..300 °C

Other temperature ranges on request.

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## Standard versions

### Specification

#### **IRBM....Ex 0120/130190 0200/130190 0120/0200 0200/0200 50300/50300**

Rating Voltage (VAC)	250	250	250	250	250
Rating Current (A)	16/16	16/16	16/16	16/16	16/16
Switching difference (K)	-6/-3	-10/-3	-6/-10	-10/-10	-12,5/-12,5
Max. sensor temperature(°C)	138/218	230/218	138/230	230/230	345/345
Protection class	IP65	IP65	IP65	IP65	IP65
Capillary tube length (mm)	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000
Sensor diameter (mm)	4/4	4/4	4/4	4/4	4/4
Dimensions L*W*H (mm)	220x120x90	220x120x90	220x120x90	220x120x90	220x120x90
Glands M25/M20	1/2	1/2	1/2	1/2	1/2
Clamping zone M25/M20 (mm)	6-13/10-17	6-13/10-17	6-13/10-17	6-13/10-17	6-13/10-17
Cross section (mm <sup>2</sup> )	4	4	4	4	4
Weight (kg)	2	2	2	2	2