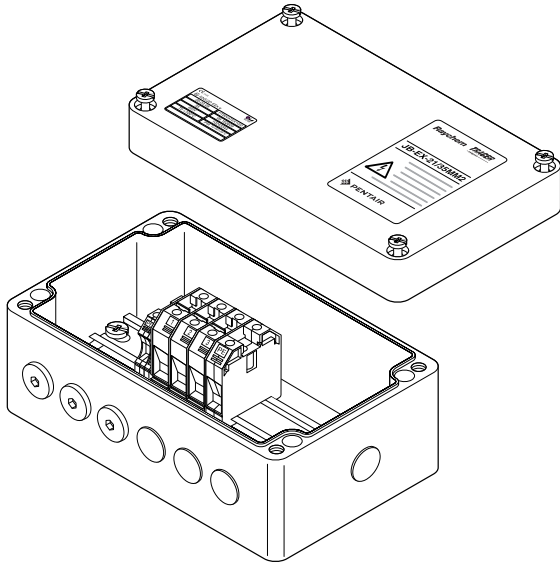


# Raychem JB-EX-21/35MM2

## MULTI PURPOSE JUNCTION BOX



Industrial junction box for use in hazardous areas with PI and MI heating cables when large terminal sizes are required. This box can be used to make connections between power cables, heating cables and cold lead cables. Depending on the configuration of the system, the box can accommodate multiple heating cables/cold leads and a power cable.

The M20 connection kits have to be ordered separately depending on the type of heating cable being used.

Cable connection is accomplished via DIN rail mounted screw terminals from Weidmuller to provide safe, reliable and maintenance-free operation.

The box can be wall mounted via the four holes moulded in the base of the box.

### TYPICAL USE

Power supply box, end-box, splice box for series heating cables (PI & MI), when using M20 connection kits. Marshalling box for power cables.

### ENTRIES

6 x M20  
1 x M40


### KIT CONTENTS

1 x Junction box with screw terminals on DIN rail  
3 x M20 stopping plugs  
3 x M20 rain plugs (temporary)  
1 x M40 stopping plug

### APPROVALS

PTB 00 ATEX 1002


 II 2G Ex edm ia [ia] IIC T6, T5 and T4

 II 2D Ex tD A21 IP66 T85°C, T100°C and T135°C

IECEX PTB 08.0004

Ex e ia II, IIC T6, T5, T4

Ex tD A21 IP66 T 85°C, T 100°C, T 135°C

 TC RU C-BE.MI062.B.02853  
1Ex e d m ia [ia] IIC T6...T4

**MATERIALS OF CONSTRUCTION**

Box & lid	Electrostatic charge-resistant glass-filled engineered polymer, black
Sealing gasket	Silicone rubber
Lid fixing screws	Stainless steel (captive)

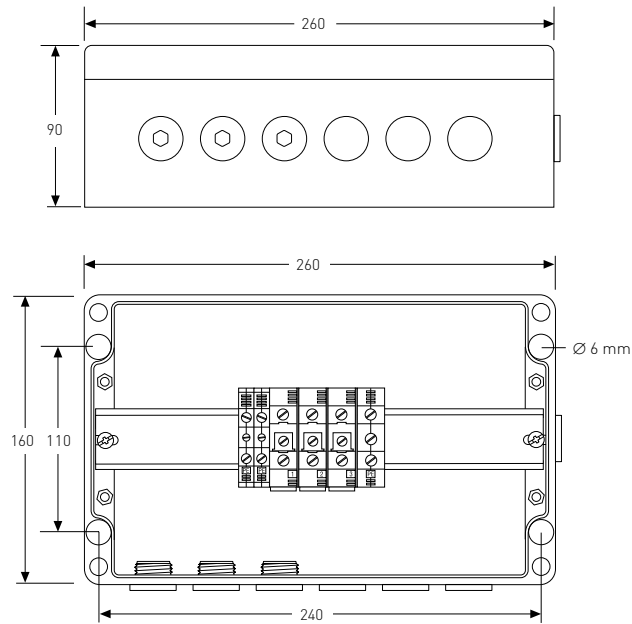
**INGRESS PROTECTION**

IP66
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**AMBIENT TEMPERATURE RANGE**

-50°C to +55°C
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**DIMENSIONS (IN MM)**



**TERMINALS**

Quantity & type	3 pcs WDU35 screw terminals 2 pcs WPE10 earth terminals for heating cable earth leads 1 pc WPE35 earth terminal for power cable Junction box can accommodate up to 6 fully loaded phase/neutral terminals (maximum 10 terminals in total)
Labelling	1, 2, 3 + 3 x PE
Minimum conductor size	2.5 mm <sup>2</sup> stranded & solid
Maximum conductor size	35 mm <sup>2</sup> stranded & 16 mm <sup>2</sup> solid
Maximum operating voltage	690 Vac
Maximum operating current	100 A

**ACCESSORIES (TO BE ORDERED SEPARATELY)**

Glands for power cables	GL-51-M40 hazardous area approved gland for cables Ø 17-28 mm, GL-45-M32 hazardous area approved gland for cables Ø 12-21 mm, GL-50-M20 hazardous area approved gland for cables Ø 5.5-13 mm	
Reducer	REDUCER-M40/32-EEXE hazardous area M40 male to M32 female reducer	
Loose terminals	35 mm <sup>2</sup> phase/neutral terminal:	HWA-WDM-PHASE-35
	10 mm <sup>2</sup> earth terminal:	HWA-WDM-EARTH-10
	35 mm <sup>2</sup> earth terminal:	HWA-WDM-EARTH-35
	Endplate:	HWA-WDM-PLATE
	Terminal jumper (2):	HWA-WDM-JUMPER-35-2
	Terminal jumper (3):	HWA-WDM-JUMPER-35-3
Gland for PI cold leads	GL-44-M20-KIT hazardous area approved gland for cables Ø 5.5-13 mm	
Insulation entry kit for PI cold leads	IEK-20-PI	
Gland for MI cold leads	In case of factory terminated units, already present. For on-site assemblies, contact Pentair or refer to DOC-606	

**ORDERING DETAILS**

Order reference	JB-EX-21/35MM2
Part number (Weight)	1244-006653 (1.9 kg)



[WWW.PENTAIRTHERMAL.COM](http://WWW.PENTAIRTHERMAL.COM)

**EUROPE, MIDDLE EAST, AFRICA**

Tel: +32.16.213.511  
Fax: +32.16.213.603  
[thermal.info@pentair.com](mailto:thermal.info@pentair.com)

**UNITED KINGDOM**

Tel: 0800 969 013  
Fax: 0800 968 6241  
[salesthermaluk@pentair.com](mailto:salesthermaluk@pentair.com)

**IRELAND**

Tel: 1800 654 241  
Fax: 1800 654 240  
[salesie@pentair.com](mailto:salesie@pentair.com)

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