

PBS / PBM

Power entry or Splice connection with junction box



- Build size allows up to 120 mm of thermal insulation
- On and Off-Pipe (vessel wall) mountable versions
- Including cold applied connection and end termination kit (CAK)
- Fast installation and maintenance-free operation with spring type terminals
- Power Connection or splice for all BARTEC self-regulating heating cable PSB, MSB, HSB, HSB+ or HTSB

PBS Power Box Single

Junction Box, designed to connect one or two BARTEC self-regulating heating cable to power or to form a splice or powered splice. One CAK is included in every PBS kit.

PBS-200-E for self-regulating heating cables

Pipe mountable junction box kit integrating the functions of an insulation entry and power connection kit within an Ex e certified enclosure. Insulation entry kits are not required as the mounting stand provides this feature.

PBS-300-E for self-regulating heating cables

Off-pipe mountable single junction box kit, comprising one CAK, a galvanized steel bracket and mounting plate and an Ex e certified polyester enclosure. IEK Insulation Entry Kits must be ordered separately.

PBM Power Box Multiple

Junction Box, designed to connect up to three BARTEC self-regulating heating cables to power, form a splice or a tee. Three CAKs are included in every PBM kit.

PBM-200-E for self-regulating heating cables

Pipe mountable junction box kit integrating the functions of an insulation entry and power connection kit within an Ex e certified enclosure. Insulation entry kits are not required as the mounting stand provides this feature.

PBM-300-E for self-regulating heating cables

Off-pipe mountable junction box kit, comprising three CAKs, a galvanized steel bracket and mounting plate and an Ex e certified enclosure. IEK Insulation Entry Kits must be ordered separately.

PBS and PBM kits are also available with M32 cable glands and 10mm² Ex e spring type terminals for larger supply conductor sizes.

Explosion Protection

Installation Enclosure for self-regulating trace heating for PSB, MSB, HSB+, HTSB

Marking	Ⓜ II 2G Ex eb 60079-30-1 IIC T6...110°C (T4) Gb Ⓜ II 2D Ex tb 60079-30-1 IIIC TL80...TL110°C Db
---------	--

Certification	DEKRA 21ATEX0118 X IECEX DEK 21.0074X
---------------	--

Self-regulating trace heating system for PSB, MSB

Marking	Ⓜ II 2G Ex eb 60079-30-1 IIC T6...T3 Gb Ⓜ II 2D Ex tb 60079-30-1 IIIC TL80...TL170°C Db
---------	--

Certification	DEKRA 20ATEX0093 X IECEX DEK 20.0055 X
---------------	---

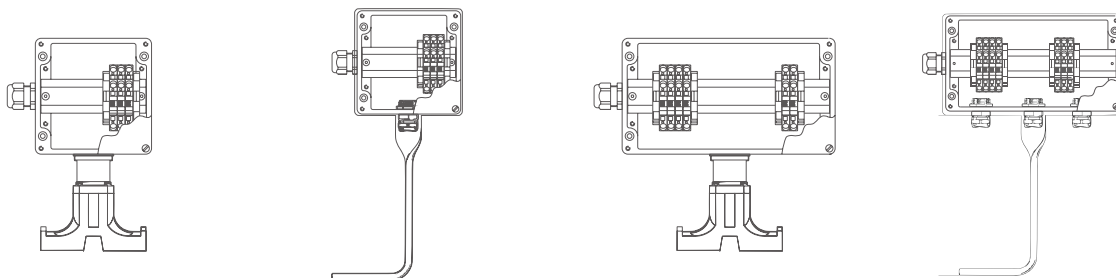
Other approvals and certificates, see www.bartec.com

Technical Data

Junction box with mounting stand

Ambient temperature	-55°C to +55°C
Min. installation temperatur	-55°C
Max. workpiece temperature mounting stand	+240°C
Power supply	max. 277 V
Max. circuit breaker size	32 A
Ingress Protection	IP66
Connection Technology CAK	
Max. withstand temperature / max. Service temperature end seal	+200°C
Min. installation temperatur	-60°C
Material	
Enclosure	Polyester, glass fibre reinforced Aluminium/Stainless steel on request
Stand Material	PPS, glass fibre reinforced
CAK Material	Silicone

Ordering information



	PBS-200-E, -E10	PBS-300-E, -E10	PBM-200-E, -E10	PBM-300-E, -E10
Kit contents	1 junction box with terminals 1 stand assembly 1 cold applied set 1 green/yellow tube 2 cable grommet	1 junction box with terminals 1 plate and stand assembly 1 cold applied set 1 green/yellow tube 1 cable gland with grommet	1 junction box with terminals 1 stand assembly 3 cold applied sets 3 green/yellow tube 3 cable grommet	1 junction box with terminals 1 plate and stand assembly 3 cold applied sets 3 green/yellow tube 3 cable gland with grommet
Compatible cable series:	PSB, MSB, HSB, HSB+, HTSB	PSB, MSB, HSB, for HSB+, HTSB, please add one CAK-SRG-B to each kit	PSB, MSB, HSB, HSB+, HTSB	PSB, MSB, HSB, for HSB+, HTSB, please add one to three CAK-SRG-B to each kit
Box size	122 x 120 x 90 mm (160 x 160 x 90 for -E10)	122 x 120 x 90 mm (160 x 160 x 90 for -E10)	220 x 120 x 90 mm (260 x 160 x 90 for -E10)	220 x 120 x 90 mm (260 x 160 x 90 for -E10)
Power entry	1 x M25 1 blind plug M25 (M32 for -E10)	1 x M25 1 blind plug M25 (M32 for -E10)	1 x M25 1 blind plug M25 (M32 for -E10)	1 x M25 1 blind plug M25 (M32 for -E10)
Heating cable entry	2 x grommets	1 x M20 gland	3 x grommets	3 x M20 gland
Box support	Integrated PPS Mounting Stand	Mounting Plate & Bracket, galv. steel	Integrated PPS Mounting Stand	Mounting Plate & Bracket, galv. steel
Terminals	Triple Spring Type, Ex e, 1 phase, 1 neutral, 1 or 2 ground	Triple Spring Type, Ex e, 1 phase, 1 neutral, 1 or 2 ground	Triple Spring Type, Ex e, 2 phase, 2 neutral, 2 or 3 ground	Triple Spring Type, Ex e, 2 phase, 2 neutral, 3 ground
Max. conductor size	6 mm ² (10 mm ² for -E10)	6 mm ² (10 mm ² for -E10)	6 mm ² (10 mm ² for -E10)	6 mm ² (10 mm ² for -E10)
Order Codes	27-54P2-42221B10	27-54P2-42111B10	27-54P2-44331B10	27-54P2-44311B10
Order Codes -E10	27-54P2-43223B10	27-54P2-43113B10	27-54P2-45333B10	27-54P2-45313B10

Cold applied kits, with heating cable grommets

CAK-SRS	cold applied kit, for PBS-200-E and PBM-200-E for self-regulating heating cables PSB, MSB, HSB, HSB+, HTSB	27-59CX-9C010001
CAK-SRG	cold applied kit, for PBS-300-E and PBM-300-E for self-regulating heating cables PSB and MSB	27-59CX-73010001
CAK-SRG-B	cold applied kit, for PBS-300-E, PBM-300-E for self-regulating heating cables HSB+ and HTSB	27-59CX-97010001
CAK-M25	splice modification kit, for PBS-200-E, PBM-200-E for self-regulating heating cables PSB, MSB, HSB, HSB+, HTSB	27-59CX-0G010001

Small pipe adapter

PBS-SPA	small pipe adaptor for pipe diameters DN10 up to DN25 for PBS-200-E	05-1105-0071
PBM-SPA	small pipe adaptor for pipe diameters DN10 up to DN25 for PBM-200-E	05-1105-0072