

PBS / PBM

Power entry or Splice connection with junction box



- Stand size allows up to 4 in of thermal insulation
- On and Off-Pipe (Tankwall) mounts available
- Power and end termination kit (CAK or HSK) included
- Fast installation and maintenance-free operation with spring type terminals

PBS Power junction box for up to two trace heaters. Power Junction Box, designed to connect one BARTEC parallel heating cable to power or to form a splice or powered splice. One CAK or HSK connection and end termination kit is included in every PBS kit.

ON Pipe Stand

Pipe mountable power junction box kit, integrating the functions of an insulation entry and power connection kit within a Type 4X certified polyester enclosure.

PBS-200-A for self-regulating heating cables PSB / MSB / HSB
PBS-220-A for parallel constant wattage cable BPL-AL

OFF Pipe Stand

Off-pipe mountable power junctionbox for remote mount of power kit with a galvanized steel bracket and mounting plate and a Type 4X certified polyester enclosure. IEK Insulation Entry Kits must be ordered separately.

PBS-300-A for self-regulating heating cables PSB / MSB / HSB
PBS-310-A for parallel constant wattage cable BPL-AL

PBM Power junction box for up three trace heaters Power Junction Box, designed to connect up to three BARTEC parallel heating cables to power or splice up to three trace heaters. Depending on the type, two or three CAK or HSK connection and termination kits are included in every PBM kit.

ON Pipe Stand

Pipe mountable power junction box kit, integrating the functions of an insulation entry and power connection kit within a Type 4X certified polyester enclosure.

PBM-200-A for self-regulating heating cables PSB / MSB / HSB
PBM-220-A for parallel constant wattage cable BPL-AL

OFF Pipe Stand

Off-pipe mountable power junctionbox for remote mount of power kit with a galvanized steel bracket and mounting plate and a Type 4X certified polyester enclosure. IEK Insulation Entry Kits must be ordered separately.

PBM-300-A for self-regulating heating cables PSB / MSB / HSB
PBM-310-A for parallel constant wattage cable BPL-AL

PBS and PBM kits are also available with 1" power entry holes and 6 AWG spring type terminals for larger supply conductor sizes. See type selection table on next page for further details.

Explosion Protection

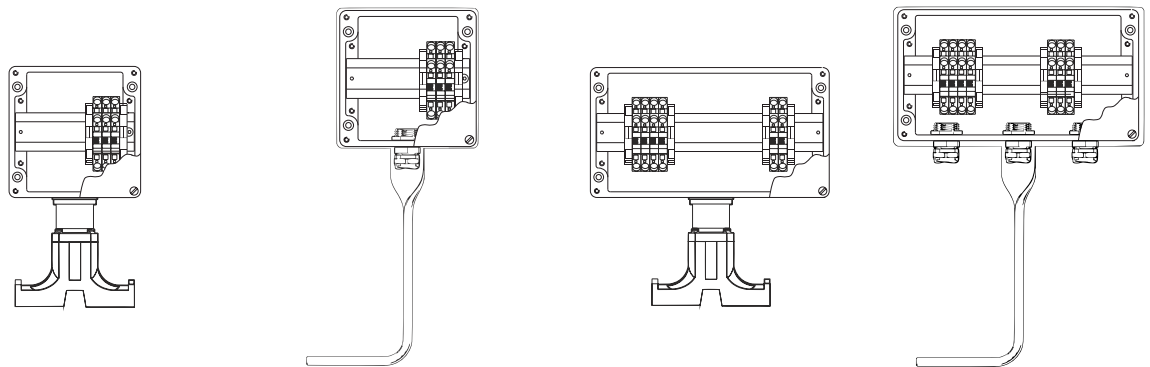
Explosion protection System	
Marking	Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups E, F, G Class III
Certification	CSA 1862457
Explosion protection Box	
Marking	Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups E, F, G Class III
Certification	PBS-200-A: CSA 1862457 PBS-220-A: CSA 2557738
Explosion protection Connection kit	
Marking	Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups E, F, G Class III
Certification	PBS-200-A: CSA 1862457 PBS-220-A: FM 3009080

Other approvals and certificates, see www.bartec.com

Technical Data

Protection class	Type 4X / IP 66
Min. ambient temperature	-67 °F (-55 °C)
Max. ambient temperature	depends on the type of heating cable
Storage temperature	-67 °F to +149 °F (-55 °C to +65 °C)
Max Pipe temperature	+464 °F (+240 °C) (PBS-2*0-A, PBM-2*0-A) +482 °F (+250 °C) (all other parts)
Max. current (breaker rating)	40 A
Material	
Enclosure	Polyester, glass fiber reinforced
Stand	PPS, glass fiber reinforced
Terminals	Ex e, Spring Type, 10 AWG
Power Entry	Conduit hole, depending on type

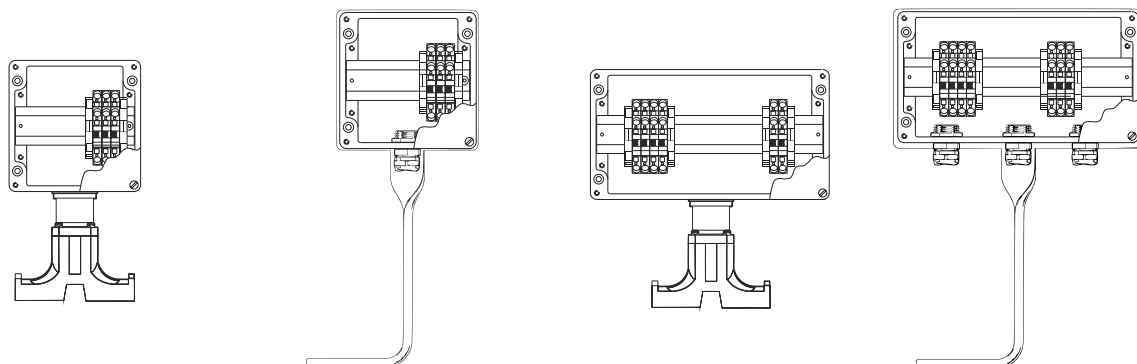
Ordering information



	PBS-200-A, -A10	PBS-300-A, -A10	PBM-200-A, -A10	PBM-300-A, -A10
Kit contents	1 junction box with terminals 1 stand assembly 1 cold applied kit with RTV 1 green/yellow tube 2 cable grommet, 1 plug	1 junction box with terminals 1 plate and stand assembly 1 cold applied kit with RTV 1 green/yellow tube 1 cable gland with grommet	1 junction box with terminals 1 stand assembly 3 cold applied kits with RTV 3 green/yellow tube 3 cable grommet , 3 plugs	1 junction box with terminals 1 plate and stand assembly 3 cold applied kits with RTV 3 green/yellow tube 3 cable gland with grommet
Compatible cable series:	PSB, MSB, HSB	PSB, MSB, HSB	PSB, MSB, HSB	PSB, MSB, HSB
Box size	4.7 x 4.7 x 3.5 in (122 x 120 x 90 mm) 6.3 x 6.3 x 3.5 in (160 x 160 x 90 mm) for -A10	4.7 x 4.7 x 3.5 in (122 x 120 x 90 mm) 6.3 x 6.3 x 3.5 in (160 x 160 x 90 mm) for -A10	8.7 x 4.7 x 3.5 in (220 x 120 x 90 mm) 10.2 x 6.3 x 3.5 in (260 x 160 x 90 mm) for -A10	8.7 x 4.7 x 3.5 in (220 x 120 x 90 mm) 10.2 x 6.3 x 3.5 in (260 x 160 x 90 mm) for -A10
Protection class	Type 4X	Type 4X	Type 4X	Type 4X
Power entry	1 x ¾ in (1 in for -A10)	1 x ¾ in (1 in for -A10)	1 x ¾ in (1 in for -A10)	1 x ¾ in (1 in for -A10)
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 ground	Triple Spring Type, Ex e, 1 phase, 1 neutral, 1 ground	Triple Spring Type, Ex e, 2 phase, 2 neutral, 2 ground	Triple Spring Type, Ex e, 2 phase, 2 neutral, 2 ground
Max. conductor size	8 AWG (6 AWG for -A10)	8 AWG (6 AWG for -A10)	8 AWG (6 AWG for -A10)	8 AWG (6 AWG for -A10)
Order Codes	27-54P1-42121610	27-54P1-42111610	27-54P1-44331610	27-54P1-44311610
-A10	27-54P1-43123710	27-54P1-43113710	27-54P1-45333710	27-54P1-45313710

Cold applied kits, explosion protected, with heating cable grommets		
CAK-SRS	cold applied kit, for PBS-200-A and PBM-200-A for self-regulating heating cables PSB, MSB, HSB	27-59CX-9C010001
CAK-SRG	cold applied kit, for PBS-300-A and PBM-300-A for self-regulating heating cables PSB, MSB, HSB	27-59CX-73010001
CAK-M25	splice extension kit, for PBS-200-A and PBM-200-A for self-regulating heating cables PSB, MSB, HSB	27-59CX-0G010001
CAK-E5	cold applied end seals (5pc per set, with RTV) for self-regulating heating cables PSB, MSB, HSB	27-59CZ-90000005
PBS-SPA	small pipe adaptor for pipe diameters DN10 up to DN25 for PBS-200-A, PBS-210-A, ELL-200-E	05-1105-0071
PBM-SPA	small pipe adaptor for pipe diameters DN10 up to DN25 for PBM-200-A	05-1105-0072

Ordering information



	PBS-220-A, -A10	PBS-310-A, -A10	PBM-220-A, -A10	PBM-310-A, -A10
Kit contents	1 junction box with terminals 1 stand assembly 1 heat shrink set 1 grounding kit 1 cable grommet, 1 plug	1 junction box with terminals 1 plate and stand assembly 1 cold applied kit with RTV 1 grounding kit 1 cable gland with grommet	1 junction box with terminals 1 stand assembly 2 heat shrink set 2 grounding kits 2 cable grommets	1 junction box with terminals 1 plate and stand assembly 3 cold applied kits with RTV 3 grounding kits 3 cable glands with grommets
Compatible cable series:	BPL-AL - Class 1 Div 2	BPL-AL - ATEX & IECEx	BPL-AL - Class 1 Div 2	BPL-AL - ATEX & IECEx
Box size	4.7 x 4.7 x 3.5 in (122 x 120 x 90 mm) 6.3 x 6.3 x 3.5 in (160 x 160 x 90 mm) for -A10	4.7 x 4.7 x 3.5 in (122 x 120 x 90 mm) 6.3 x 6.3 x 3.5 in (160 x 160 x 90 mm) for -A10	8.7 x 4.7 x 3.5 in (220 x 120 x 90 mm) 10.2 x 6.3 x 3.5 in (260 x 160 x 90 mm) for -A10	8.7 x 4.7 x 3.5 in (220 x 120 x 90 mm) 10.2 x 6.3 x 3.5 in (260 x 160 x 90 mm) for -A10
Protection class	Type 4X	Type 4X	Type 4X	Type 4X
Power entry	1 x 3/4 in (1 in for -A10)	1 x 3/4 in (1 in for -A10)	1 x 3/4 in (1 in for -A10)	1 x 3/4 in (1 in for -A10)
Heating cable entry	1 x grommets, 1 x blind plug	1 x M20 gland	2 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 ground	Triple Spring Type, Ex e, 1 phase, 1 neutral, 1 ground	Triple Spring Type, Ex e, 2 phase, 2 neutral, 2 ground	Triple Spring Type, Ex e, 2 phase, 2 neutral, 2 ground
Max. conductor size	8 AWG (6 AWG for -A10)	8 AWG (6 AWG for -A10)	8 AWG (6 AWG for -A10)	8 AWG (6 AWG for -A10)
Order Codes	27-54P3-4212161A	27-54P3-42111610	27-54P3-44331610	27-54P3-44311610
-A10	27-54P3-43123710	27-54P3-43213710	27-54P3-45333710	27-54P3-45313710

Cold applied kits, explosion protected, with heating cable grommets		
HSK-PLS	heat shrink, for PBS-220-A and PBM-220-A for BPL-AL cables with Class 1 Div 2 approval	27-59HZ-7C010001
CAK-PLG	cold applied kit, for PBS-310-A and PBM-310-A for BPL-AL cables with ATEX and IECEx approvals	27-59CX-E1010001