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BPG

Glass Reinforced Polyester Enclosures

SX Range

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Glass Reinforced Polyester Enclosures

The BPG range comprises 16 sizes of enclosure manufactured in glass reinforced polyester (GRP). This material is highly resistant to contamination from oils, fats, aliphatic and aromatic carbohydrates, bacteria and enzymes. It is also suitable for LSOH (low smoke zero halogen) applications.

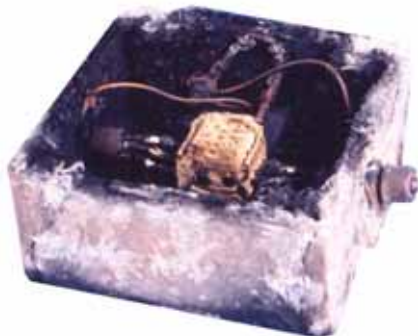
Polyester gives excellent mechanical strength and life expectancy. The wall thickness is sufficient to allow tapped entry holes to be machined in the walls of the enclosure and it provides a very good alternative to aluminium or cast iron.



ABTECH mould the BPG range from SMC material rather than DMC which is the most common form of GRP. In this method the glass reinforcement takes the form of sheets rather than short strands. This gives much greater mechanical strength and also in the event of the enclosure being exposed to fire conditions the structure holds together even if the resin is depleted due to the elevated temperatures.

This is demonstrated by the fact that the BPG range when fitted with ceramic terminals meets the requirements of IEC 331 (750°C for 3 hours) and also BS6387/1983 (950°C for 3 hours - flame only).

Further information about this testing procedure can be found in Section 6 of this catalogue.



Due to the enclosure's labyrinth seal system, whereby the seal is protected from external forces, the BPG range has excellent ingress protection qualities which mean that the enclosures are tested to and passed IP66/67. They have also undergone and passed the Shell/ERA deluge test which was devised to adequately test enclosures and electrical equipment which is routinely subjected to ship decks conditions or fire deluge systems.

The mounting holes, although contained within the profile of the enclosure, sit outside the seal and all external fasteners and fixings are manufactured from 316 grade stainless steel to ensure reliability.



Glass Reinforced Polyester Enclosures

The BPG range has many features which lend itself to a whole host of applications including both industrial and hazardous area junction boxes, OEM applications, fire protection systems, tunnel wiring etc.

The BPG range can be machined, drilled, tapped with various thread forms, painted and of course it can be moulded in a variety of colours which gives a much improved durability of colour over painting.



The BPG range is also available carbon loaded (BPGC) which helps to reduce the surface resistance of the material and consequently reduce the risk of spark from static build up.

Earthing can be accomplished by various means. Internal / external earth stud which in turn can be connected to the terminal mounting rail or component mounting plate, an earth continuity plate (ECP) can be fitted around the inner walls to provide continuity for cable glands and various rail mounted earth terminals or proprietary earth bars can be fitted inside the enclosure.

When fitted with a standard neoprene gasket the enclosure is suitable for ambient temperatures of - 40°C to + 80°C. Alternatively, when fitted with an optional silicone gasket the temperature range is increased to -70°C to +130°C. For certified apparatus contact the ABTECH Sales department for ambient operating temperatures.

The BPG and BPGC enclosures are suitable for use in hazardous areas and can be supplied with a number of certificates, specifically ATEX EEx'e' to BS EN 50019 (zone 1 & 2) EEx'nA' to BS EN50021 (zone 2) and NEMA 4X (CSA, UL & FM class 1, div 2).



The BPG range can be supplied fitted with any component approved terminal to apparatus level or can be supplied empty as component approved for the clients own certification requirements.

BPG Range Features

- Wide Operating Temperature (- 70°C to + 130°C)
- Ingress Protection up to IP68
- Fire Resistant to IEC331
- Impact Resistant > 7Nm
- UV Resistant
- Can be drilled and tapped to accommodate most thread forms (NPT for example)
- Certification for use in Zone 1 and 2
- UL, CSA, ATEX and GOST Approvals
- Ideal for Petrochemical and Marine applications

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Glass Reinforced Polyester Enclosures

Accessories and Options

The following table is a list of the available accessories suitable for a particular size of BPG enclosure. Care should be taken when ordering accessories for use with enclosures intended for hazardous areas to ensure that compliance with certification is retained.

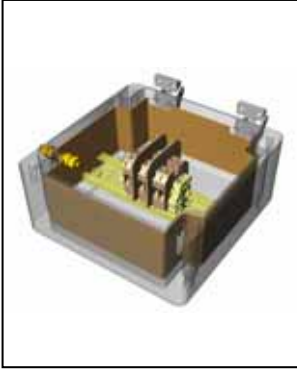
Part Number	Width (mm)	Length (mm)	Depth (mm)	C - Carbon Loaded (see note 1)	EX - Ex Certified (see note 2)	EC - Earth Continuity Plate	ES - Earth Stud	AS - Allen Head Fixing Screws	TP - Tamper Proof Screws	EH - External Hinges	MP - Component Mounting Plate	MF - External Mounting Feet	EB - Internal Earthing Bar	SG - Silicone Gasket (see note 3)	MR - DIN Standard Mounting Rail	RF - RFI Protection (see note 4)
BPG1	80	75	55	✓	✓	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓
BPG2	110	75	55	✓	✓	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓
BPG3	160	75	55	✓	✓	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓
BPG4	190	75	55	✓	✓	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓
BPG4.5	190	75	75	✓	✓	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓
BPG5	230	75	50	✓	✓	✗	✗	✓	✓	✓	✓	✓	✗	✓	✓	✓
BPG6	122	120	90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG7	220	120	90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG8	160	160	90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG9	260	160	90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG10	360	160	90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG11	560	160	90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG12	255	250	120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG13	400	250	120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG14	600	250	120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BPG15	400	405	120	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Ordering Example;

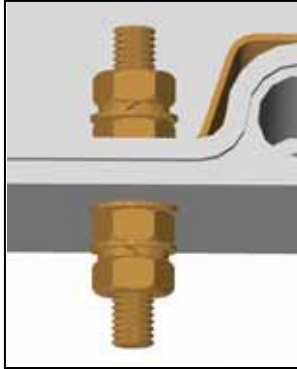
BPG8 EX EC EB MR

(BPG8 EX Certified with Earth Continuity Plate, Internal Earthing Bar and DIN standard Mounting Rail)

- Carbon loading gives a surface tracking value of between 10MQ and 10GQ. Surface colour is black.
- EEEx'e certification may be component or apparatus certified - please specify your requirements.
- Silicone gasket increases temperature rating (-70° to +130° C) and may increase the working life in some applications.
- Radio Frequency Interference (RFI) gasket may reduce IP rating. Enclosure may also be internally coated with RFI material.



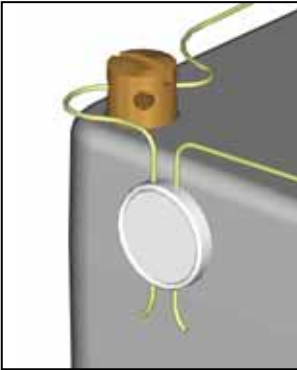
Copper earth continuity plate
(must also be fitted with earth stud)



Earth Stud
(either brass or stainless steel)



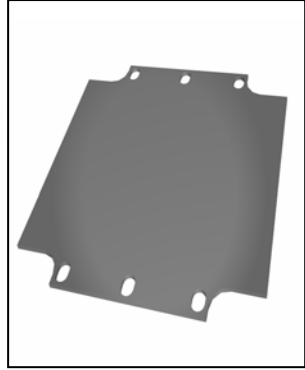
Allen Head fixing screws
(grade 316)



Tamper-proof screws



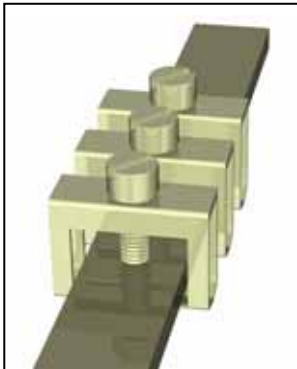
External hinges



Component mounting plate
(tufnol as standard, steel an option)



External mounting feet
(stainless steel 316)



Internal Earthing bar
(can be fitted with clamps)



DIN standard mounting rail
(TS15, TS32 or TS35)

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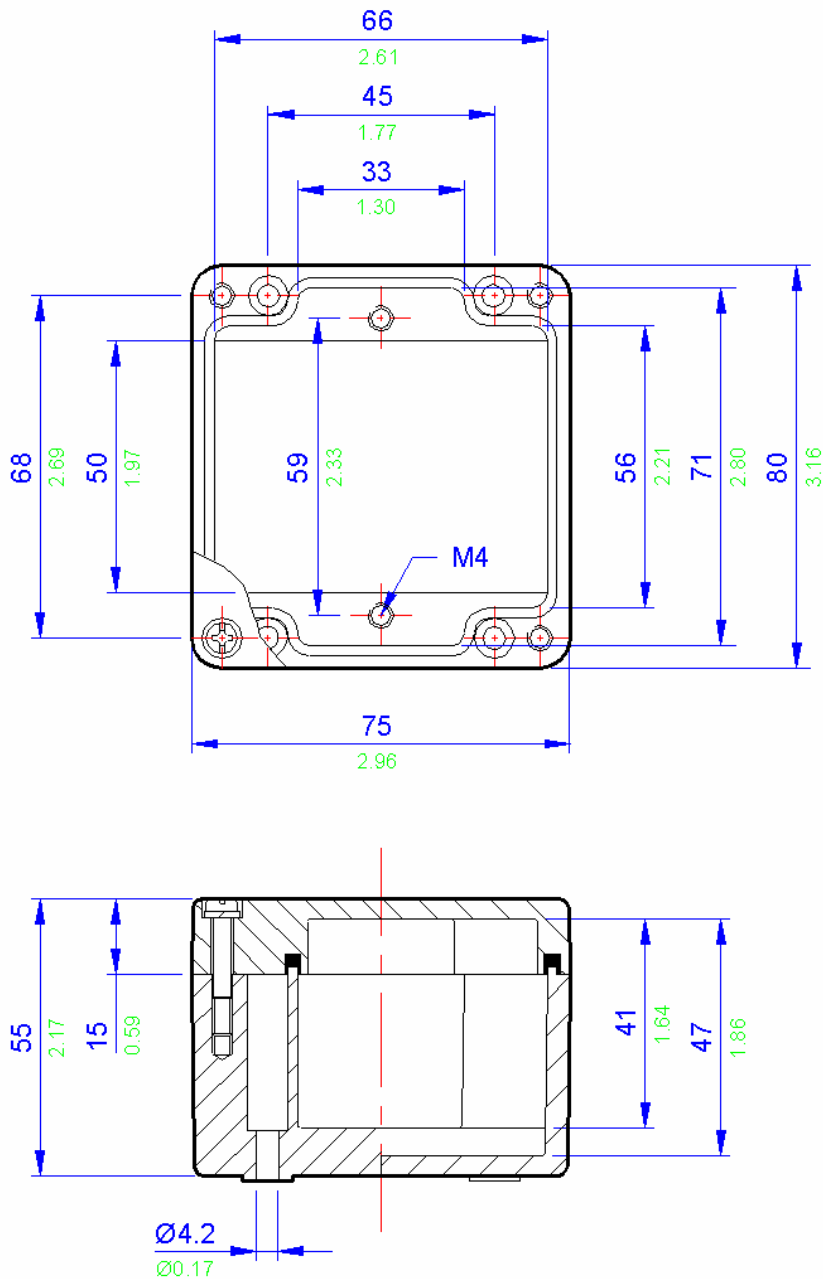
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BPG 1 / BPGC 1 Drawing



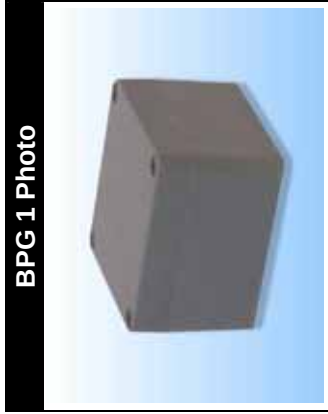
All **blue** dimensions in mm, all **green** dimensions in decimal inches (drawing not to scale)

BPG 1 / BPGC 1 Specifications	
Width	80mm
Length	75mm
Depth	55mm
Material	BPG1 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC1 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	230g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'na' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
Power Rating	GOST-R Ex'e' (Zone 1 & 2)
	8.390W

Terminal Populations		
Maximum Number of Rows	1	
Weidmuller	Wago	
BK4 (4 way)	1	280-992
BK6 (6 way)	1	280-999
BK12 (12 way)	0	281-691
MK6/3	1	281-992
MK6/4	1	281-993
MK6/6	0	282-691
SAK2.5	0	284-691
SAK4	0	283-691
SAK6N	0	285-691
SAK10	0	280-998
SAK16	0	281-998
SAK35	0	264-120
Entrelec	264-220	
MA2.5/5	0	264-132 (2)
M4/6	0	264-134 (4)
M6/8	0	262-132 (2)
M10/10	0	262-134 (4)
M16/12	0	
M35/16	0	

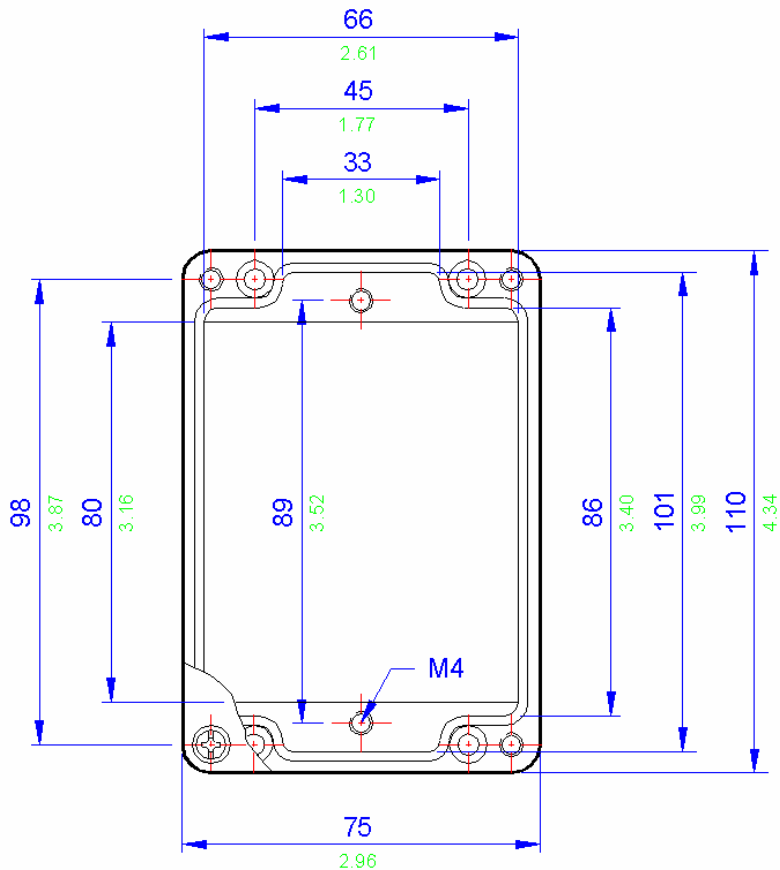
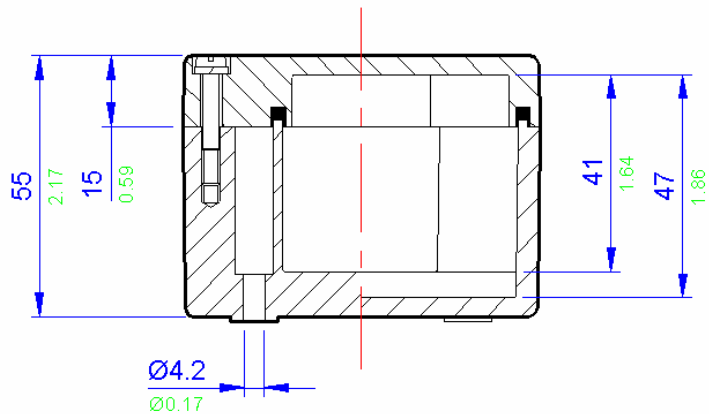
Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	1	1
M20	1	0
M25	1	0
M32	0	0
M40	0	0

Drilling Envelope	
Side A-C	50 x 36mm
Side B-D	26 x 30mm



BPG 1 Photo

BPG 2 / BPGC 2 Drawing



All **blue** dimensions in mm, all **green** dimensions in decimal inches (drawing not to scale)

BPG 2 / BPGC 2 Specifications	
Width	110mm
Length	75mm
Depth	55mm
Material	BPG2 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC2 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	230g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'h'a' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
Power Rating	GOST-R Ex'e' (Zone 1 & 2)
	8.551W

Terminal Populations		
Maximum Number of Rows		1
Weidmuller	Wago	
BK4 (4 way)	2	280-992
BK6 (6 way)	1	280-999
BK12 (12 way)	1	281-691
MK6/3	1	281-992
MK6/4	1	281-993
MK6/6	1	282-691
SAK2.5	0	284-691
SAK4	0	283-691
SAK6N	0	285-691
SAK10	0	280-998
SAK16	0	281-998
SAK35	0	264-120
Entrelec		264-220
MA2.5/5	0	264-132 (2)
M4/6	0	264-134 (4)
M6/8	0	262-132 (2)
M10/10	0	262-134 (4)
M16/12	0	
M35/16	0	

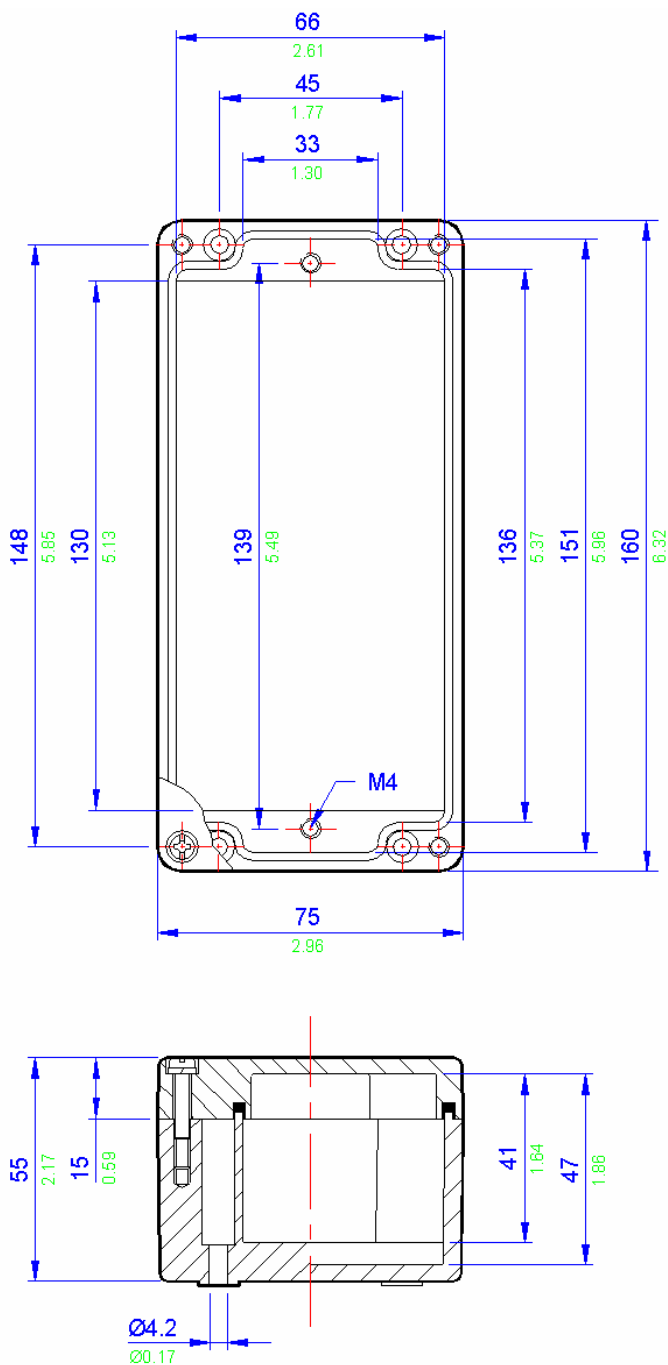
Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	3	1
M20	2	0
M25	2	0
M32	0	0
M40	0	0
Drilling Envelope		
Side A-C	80 x 38mm	
Side B-D	26 x 30mm	



BPG 2 Photo



BPG 3 / BPGC 3 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

BPG 3 / BPGC 3 Specifications	
Width	160mm
Length	75mm
Depth	55mm
Material	BPG3 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC3 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	405g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'nA' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2))
	GOST-R Ex'e' (Zone 1 & 2)
Power Rating	8.833W

Terminal Populations		
Maximum Number of Rows	1	
	Weidmuller	Wago
BK4 (4 way)	3	280-992
BK6 (6 way)	2	280-999
BK12 (12 way)	1	281-691
MK6/3	2	281-992
MK6/4	2	281-993
MK6/6	1	282-691
SAK2.5	0	284-691
SAK4	0	283-691
SAK6N	0	285-691
SAK10	0	280-998
SAK16	0	281-998
SAK35	0	264-120
Entrelec		264-220
MA2.5/5	0	264-132 (2)
M4/6	0	264-134 (4)
M6/8	0	262-132 (2)
M10/10	0	262-134 (4)
M16/12	0	
M35/16	0	

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	5	1
M20	4	0
M25	3	0
M32	0	0
M40	0	0

Drilling Envelope	
Side A-C	130 x 36mm
Side B-D	27 x 29mm



BPG 3 Photo



SX Range

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BPG Range

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BPGA Range

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ZAG Range

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High Voltage

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Fire Rated

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ZP Range

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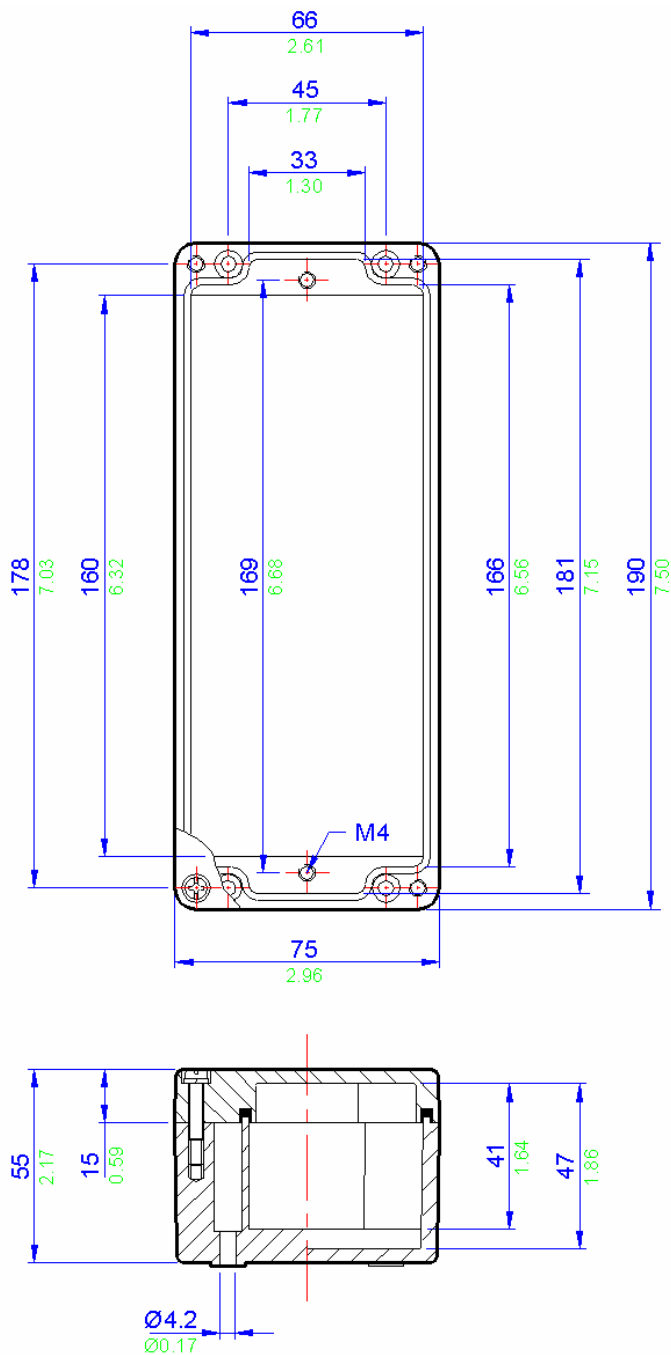
Specials

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Technical

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BPG 4 / BPGC 4 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

BPG 4 / BPGC 4 Specifications	
Width	190mm
Length	75mm
Depth	55mm
Material	BPG4 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC4 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	450g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'na' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
Power Rating	GOST-R Ex'e' (Zone 1 & 2)
	9.012W

Terminal Populations		
Maximum Number of Rows	1	
Weidmuller		Wago
BK4 (4 way)	4	280-992
BK6 (6 way)	2	280-999
BK12 (12 way)	1	281-691
MK6/3	3	281-992
MK6/4	3	281-993
MK6/6	2	282-691
SAK2.5	0	284-691
SAK4	0	283-691
SAK6N	0	285-691
SAK10	0	280-998
SAK16	0	281-998
SAK35	0	264-120
Entrelec		264-220
MA2.5/5	0	264-132 (2)
M4/6	0	264-134 (4)
M6/8	0	262-132 (2)
M10/10	0	262-134 (4)
M16/12	0	
M35/16	0	

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	6	1
M20	5	0
M25	4	0
M32	0	0
M40	0	0

Drilling Envelope

Side A-C	160 x 36mm
Side B-D	27 x 30mm



BPG 4 Photo



Technical

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Specials

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ZP Range

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Fire Rated

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High Voltage

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ZAG Range

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BPGA Range

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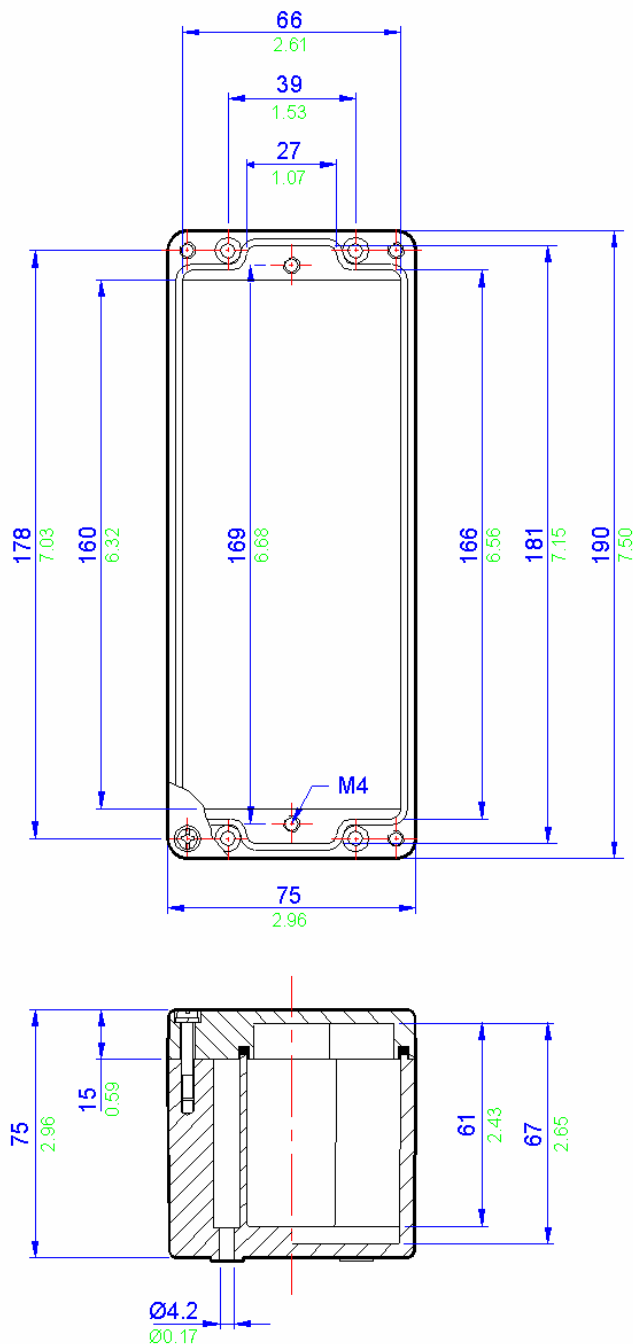
BPG Range

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SX Range

1

BPG 4.5 / BPGC 4.5 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

BPG 4.5/ BPGC 4.5 Specifications	
Width	190mm
Length	75mm
Depth	75mm
Material	BPG4.5 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC4.5 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	529g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'na' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
Power Rating	GOST-R Ex'e' (Zone 1 & 2)
	9.260W

Terminal Populations		
Maximum Number of Rows	1	
Weidmuller	Wago	
BK4 (4 way)	4	280-992
BK6 (6 way)	3	280-999
BK12 (12 way)	1	281-691
MK6/3	3	281-992
MK6/4	3	281-993
MK6/6	2	282-691
SAK2.5	25	284-691
SAK4	25	283-691
SAK6N	19	285-691
SAK10 *	17	280-998
SAK16	0	281-998
SAK35	0	264-120
Entrelec	264-220	
MA2.5/5	30	264-132 (2)
M4/6	25	264-134 (4)
M6/8	19	262-132 (2)
M10/10 *	15	262-134 (4)
M16/12 *	12	
M35/16	0	
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.		

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	12	1
M20	6	0
M25	4	0
M32	3	0
M40	0	0
Drilling Envelope		
Side A-C	55 x 160mm	
Side B-D	52 x 19mm	



BPG 4.5 Photo



Technical

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ZP Range

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Fire Rated

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High Voltage

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ZAG Range

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BPGA Range

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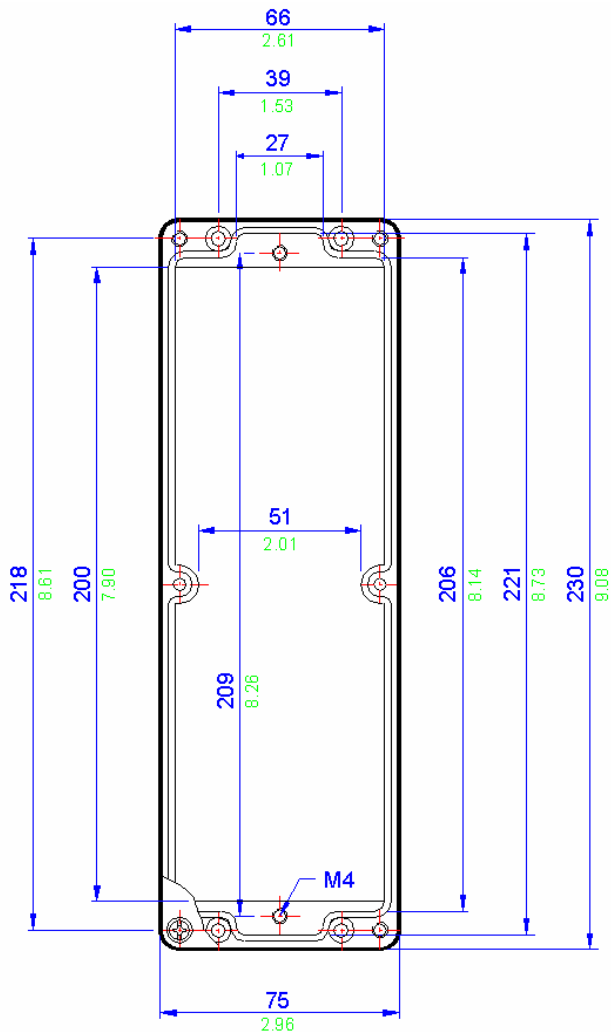
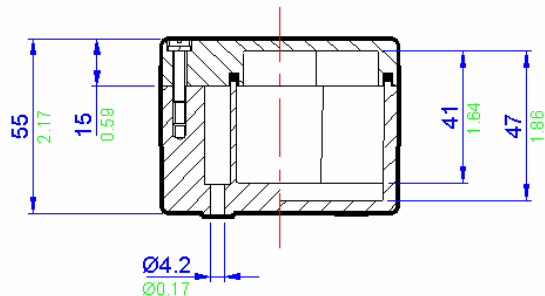
BPG Range

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SX Range

1

BPG 5 / BPGC 5 Drawing



All **blue** dimensions in mm, all **green** dimensions in decimal inches (drawing not to scale)

BPG 5 / BPGC 5 Specifications	
Width	230mm
Length	75mm
Depth	55mm
Material	BPG5 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC5 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	529g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'na' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
Power Rating	GOST-R Ex'e' (Zone 1 & 2)
	9.260W

Terminal Populations		
Maximum Number of Rows	1	
Weidmuller	Wago	
BK4 (4 way)	0	280-992
BK6 (6 way)	4	280-999
BK12 (12 way)	2	281-691
MK6/3	4	281-992
MK6/4	4	281-993
MK6/6	2	282-691
SAK2.5	0	284-691
SAK4	0	283-691
SAK6N	0	285-691
SAK10	0	280-998
SAK16	0	281-998
SAK35	0	264-120
Entelec	264-220	
MA2.5/5	0	264-132 (2)
M4/6	0	264-134 (4)
M6/8	0	262-132 (2)
M10/10	0	262-134 (4)
M16/12	0	
M35/16	0	

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	6	1
M20	4	0
M25	0	0
M32	0	0
M40	0	0

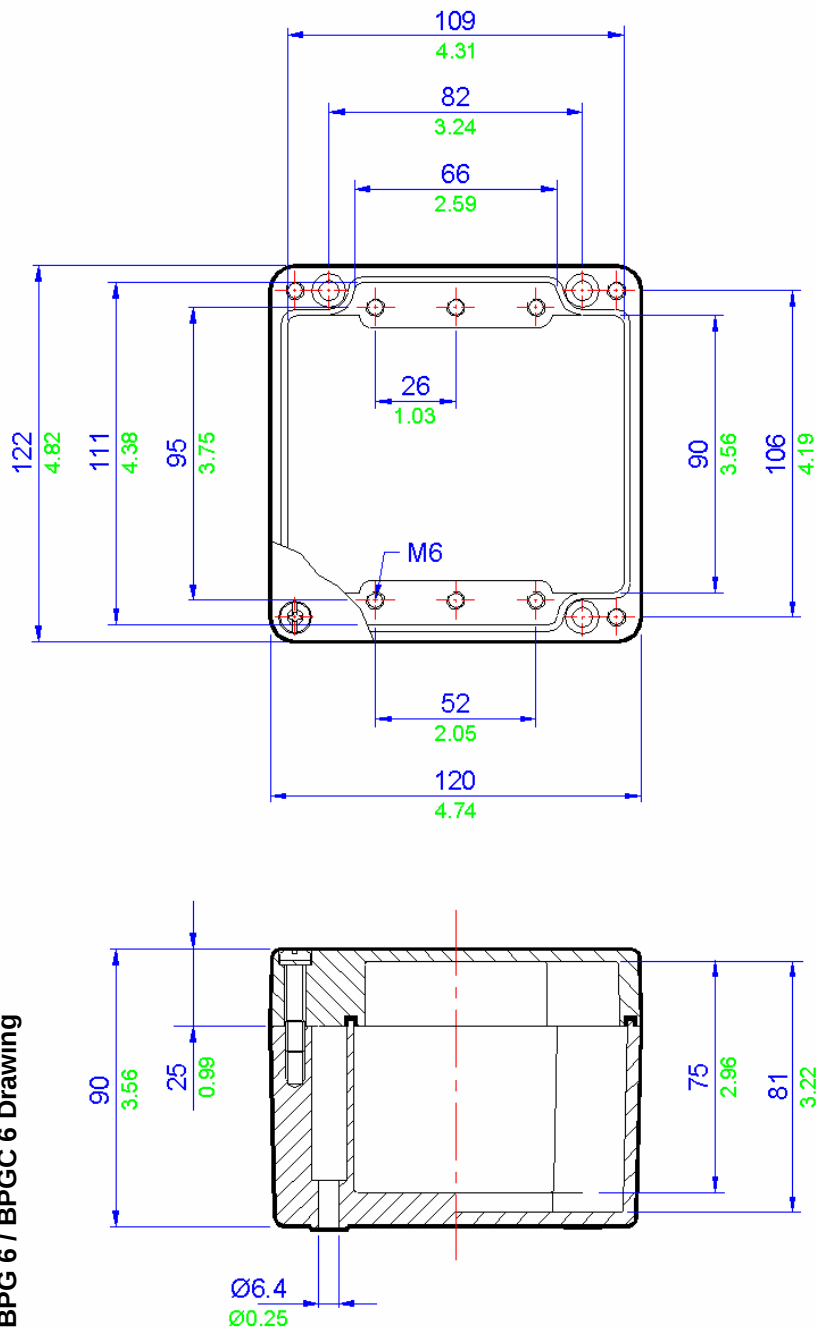
Drilling Envelope	
Side A-C	90 x 30mm
Side B-D	23 x 28mm



BPG 5 Photo



BPG 6 / BPGC 6 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	6	3
M20	4	2
M25	2	1
M32	1	0
M40	1	0

Drilling Envelope

Side A-C	75 x 60mm
Side B-D	54 x 53mm



BPG 6 Photo



Terminal Populations			1
Maximum Number of Rows	Wago		
Weidmuller			
BK4 (4 way)	2	280-992	15
BK6 (6 way)	2	280-999	15
BK12 (12 way)	1	281-691	13
MK6/3	1	281-992	13
MK6/4	1	281-993	13
MK6/6	1	282-691	10
SAK2.5	14	284-691	8
SAK4	13	283-691	6
SAK6N	10	285-691	0
SAK10 *	8	280-998	15
SAK16 *	7	281-998	13
SAK35 *	5	264-120	13
Entelec			
MA2.5/5	17	264-132 (2)	3
M4/6	14	264-134 (4)	2
M6/8	8	262-132 (2)	3
M10/10 *	8	262-134 (4)	2
M16/12 *	7		
M35/16 *	5		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 6 / BPGC 6 Specifications		
Width	122mm	
Length	120mm	
Depth	90mm	
Material	BPG6 - Glass Reinforced Polyester (RAL7001 grey)	
	BPGC6 - Carbon Loaded Glass Reinforced Polyester (Black)	
Weight	750g	
IP Rating	66/67	
Temperature	-40° to 80° C (standard neoprene gasket)	
	-70° to 130° C (silicone gasket)	
Certification	ATEX EE'x'e' BS EN 50019 (Zone 1 & 2)	
	ATEX EE'x'ha' BS EN 50021 (Zone 2)	
	NEMA 4X (CSA, UL & FM (class 1 division 2)	
	GOST-R Ex'e' (Zone 1 & 2)	
Power Rating	9.378W	

SX Range 1

BPG Range 2

BPGA Range 3

ZAG Range 4

High Voltage 5

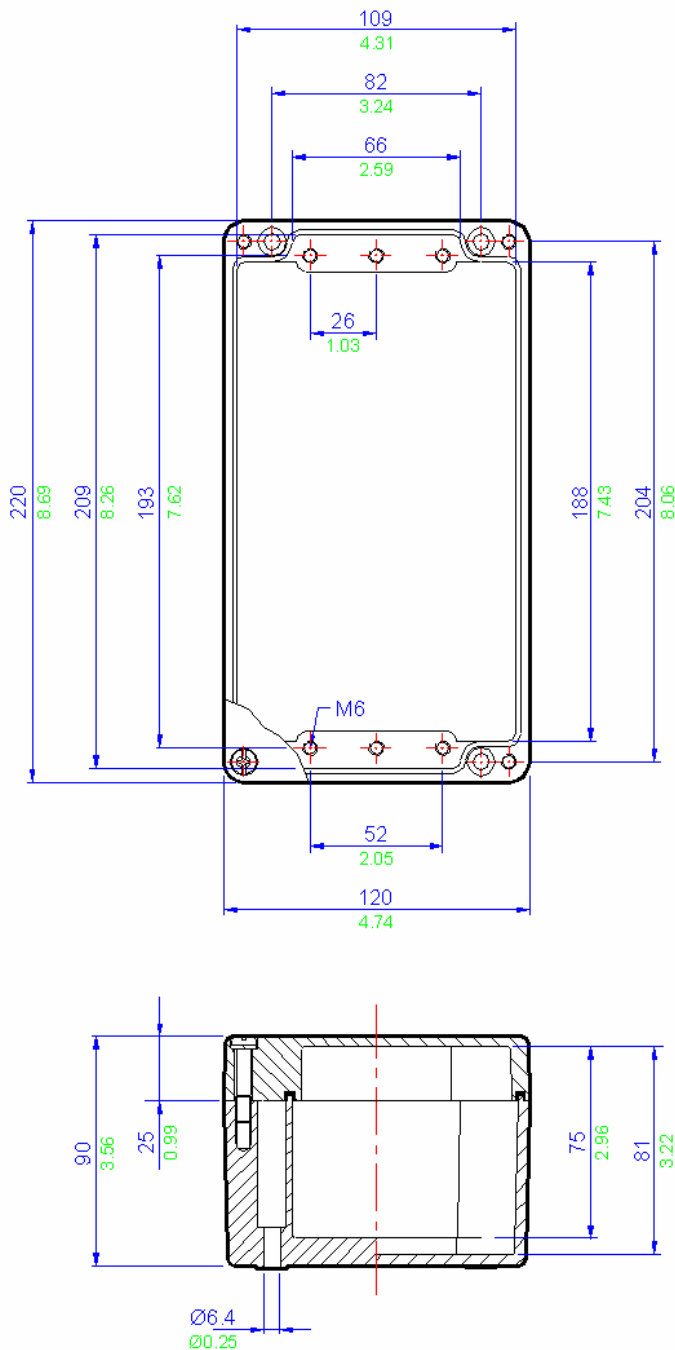
Fire Rated 6

ZP Range 7

Specials 8

Technical 9

BPG 7 / BPGC 7 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	14	3
M20	9	2
M25	4	1
M32	3	0
M40	3	0

Drilling Envelope	
Side A-C	180 x 60mm
Side B-D	56 x 53mm



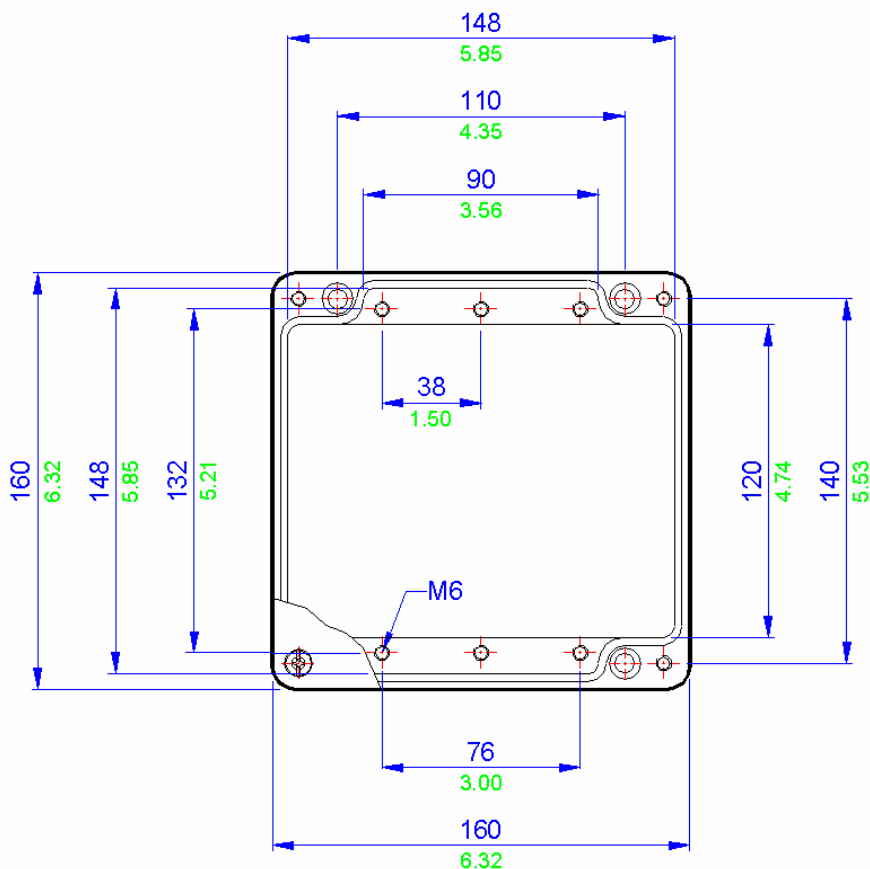
BPG 7 Photo



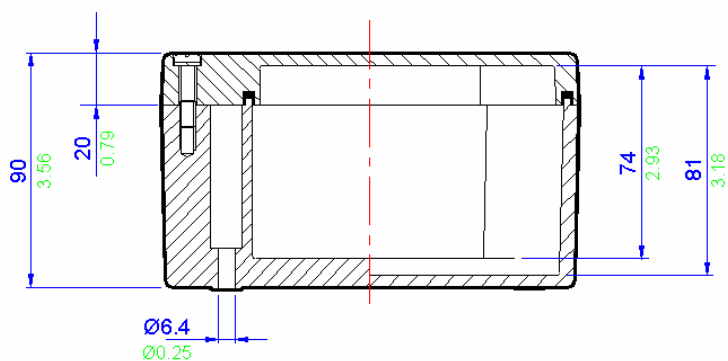
Terminal Populations			1
Maximum Number of Rows		Wago	
Weidmuller			
BK4 (4 way)	5	280-992	34
BK6 (6 way)	3	280-999 *	34
BK12 (12 way)	2	281-691	29
MK6/3	4	281-992	29
MK6/4	4	281-993 *	29
MK6/6	2	282-691	22
SAK2.5	30	284-691 *	18
SAK4	28	283-691 *	15
SAK6N	22	285-691	0
SAK10 *	18	280-998	34
SAK16 *	15	281-998	29
SAK35 *	11	264-120	30
Entelec			
		264-220	18
MA2.5/5	36	264-132 (2)	6
M4/6	30	264-134 (4)	4
M6/8	22	262-132 (2)	6
M10/10 *	18	262-134 (4)	4
M16/12 *	15		
M35/16 *	11		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 7 / BPGC 7 Specifications	
Width	220mm
Length	120mm
Depth	90mm
Material	BPG7 - Glass Reinforced Polyester (RAL7001 grey) BPGC7 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	1060g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket) -70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2) ATEX EEx'h'a' BS EN 50021 (Zone 2) NEMA 4X (CSA, UL & FM (class 1 division 2) GOST-R Ex'e' (Zone 1 & 2)
Power Rating	10.500W



BPG 8 / BPGC 8 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	8	6
M20	6	4
M25	3	2
M32	2	1
M40	1	0

Drilling Envelope	
Side A-C	108 x 65mm
Side B-D	78 x 58mm



BPG 8 Photo



Terminal Populations			1
Maximum Number of Rows		Wago	
Weidmuller			
BK4 (4 way)	3	280-992	22
BK6 (6 way)	2	280-999	22
BK12 (12 way)	1	281-691	19
MK6/3	2	281-992	19
MK6/4	2	281-993	19
MK6/6	1	282-691	15
SAK2.5	20	284-691 *	12
SAK4	19	283-691 *	10
SAK6N	15	285-691	0
SAK10 *	12	280-998	22
SAK16 *	10	281-998	19
SAK35 *	7	264-120	20
Entelec			
		264-220	12
MA2.5/5	24	264-132 (2)	4
M4/6	20	264-134 (4)	3
M6/8	15	262-132 (2)	4
M10/10 *	12	262-134 (4)	2
M16/12 *	10		
M35/16 *	7		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 8 / BPGC 8 Specifications	
Width	160mm
Length	160mm
Depth	90mm
Material	BPG8 - Glass Reinforced Polyester (RAL7001 grey) BPGC8 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	1060g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket) -70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2) ATEX EEx'ha' BS EN 50021 (Zone 2) NEMA 4X (CSA, UL & FM (class 1 division 2) GOST-R Ex'e' (Zone 1 & 2)
Power Rating	10.348W

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

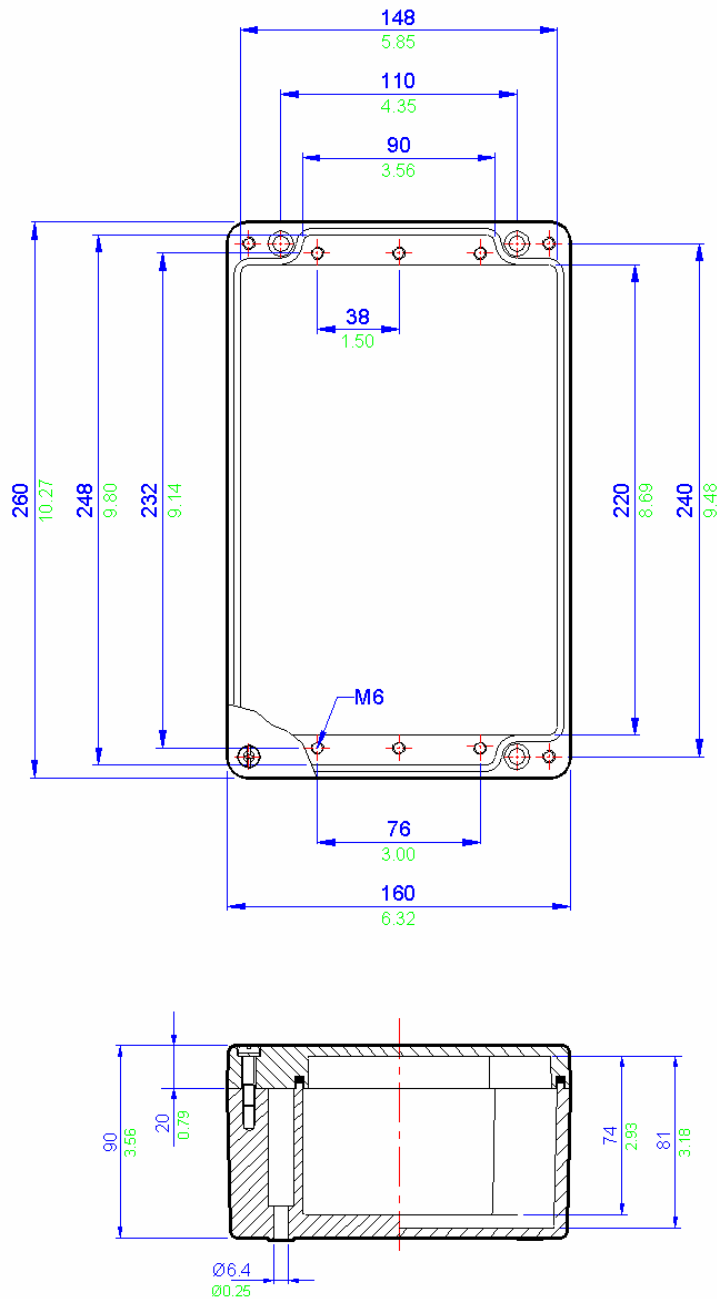
Specials

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Technical

9

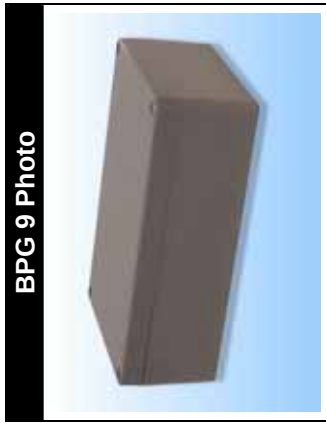
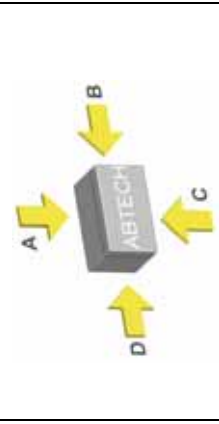
BPG 9 / BPGC 9 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	16	6
M20	12	4
M25	6	2
M32	4	1
M40	3	0

Drilling Envelope	
Side A-C	210 x 65mm
Side B-D	80 x 60mm



Terminal Populations			1
Maximum Number of Rows	Wago		
Weidmuller			
BK4 (4 way)	6	280-992	40
BK6 (6 way)	4	280-999	40
BK12 (12 way)	2	281-691	34
MK6/3	4	281-992	34
MK6/4	4	281-993	34
MK6/6	3	282-691	27
SAK2.5	36	284-691 *	21
SAK4	34	283-691 *	18
SAK6N	27	285-691	0
SAK10 *	22	280-998	40
SAK16 *	18	281-998	34
SAK35 *	14	264-120	36
Entelec			
MA2.5/5	43	264-132 (2)	21
M4/6	36	264-134 (4)	5
M6/8	27	262-132 (2)	7
M10/10 *	22	262-134 (4)	5
M16/12 *	18		
M35/16 *	14		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 9 / BPGC 9 Specifications	
Width	260mm
Length	160mm
Depth	90mm
Material	BPG9 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC9 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	1170g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EE'x'e' BS EN 50019 (Zone 1 & 2)
	ATEX EE'x'ha' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
Power Rating	GOST-R Ex'e' (Zone 1 & 2)
	11.933W

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

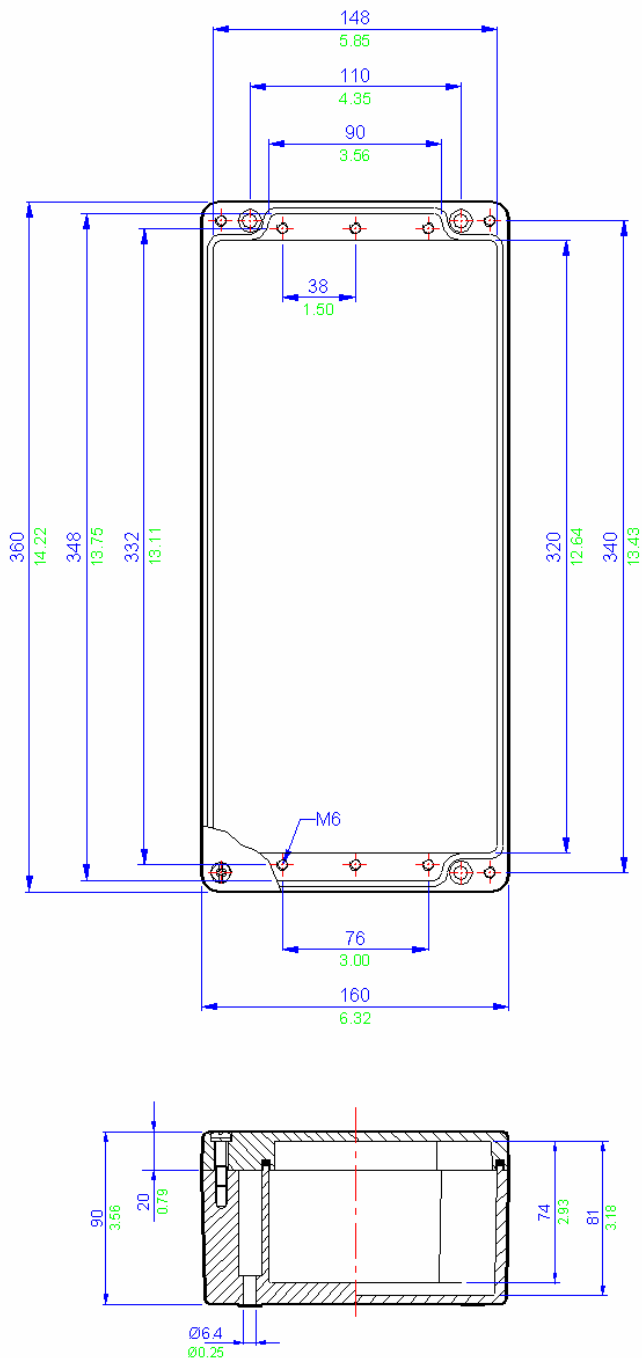
Specials

8

Technical

9

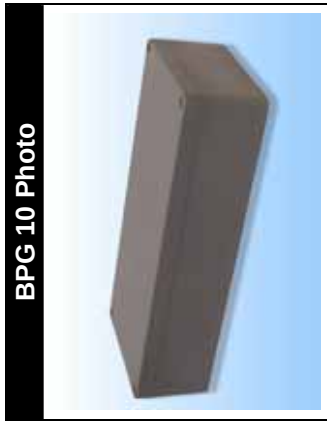
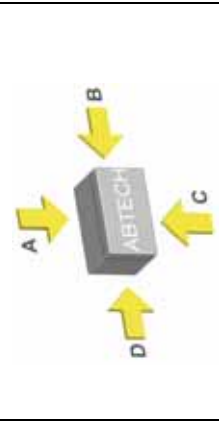
BPG 10 / BPGC 10 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	22	6
M20	18	4
M25	9	2
M32	5	1
M40	4	0

Drilling Envelope	
Side A-C	312 x 65mm
Side B-D	82 x 60mm



Terminal Populations			1
Maximum Number of Rows	Wago		
Weidmuller			
BK4 (4 way)	9	280-992	58
BK6 (6 way)	6	280-999	58
BK12 (12 way)	3	281-691	50
MK6/3	6	281-992	50
MK6/4	6	281-993	50
MK6/6	4	282-691	39
SAK2.5	52	284-691 *	31
SAK4	48	283-691 *	26
SAK6N	40	285-691	0
SAK10 *	32	280-998	58
SAK16 *	26	281-998	50
SAK35 *	20	264-120	52
Entrelec			
		264-220	31
MA2.5/5	63	264-132 (2)	11
M4/6	52	264-134 (4)	7
M6/8	40	262-132 (2)	10
M10/10 *	32	262-134 (4)	7
M16/12 *	26		
M35/16 *	20		

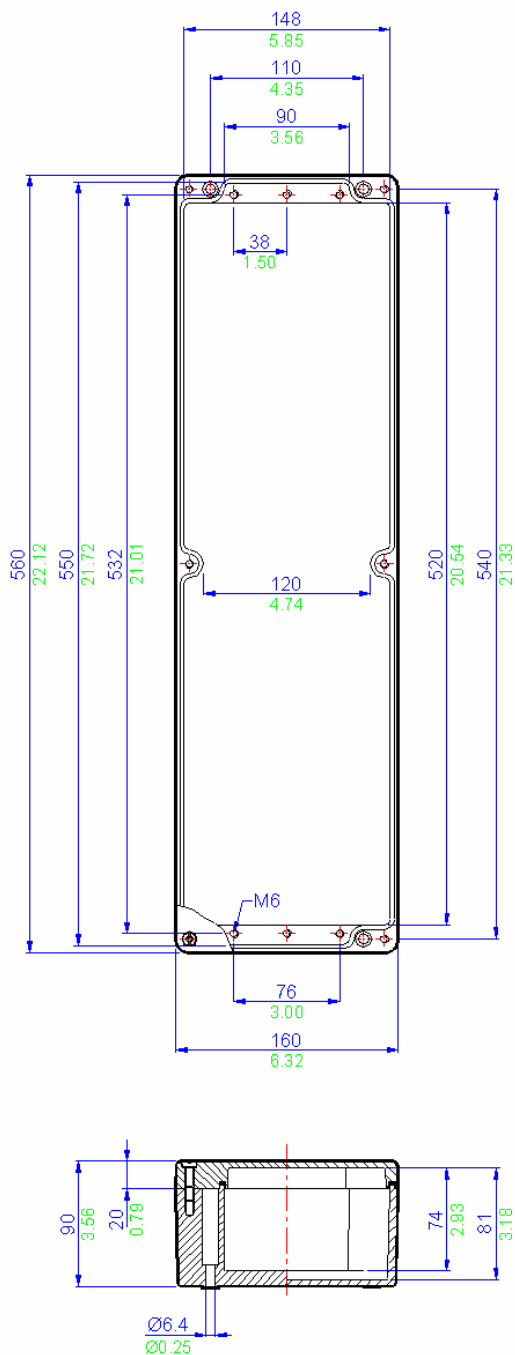
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 10 / BPGC 10 Specifications	
Width	360mm
Length	160mm
Depth	90mm
Material	BPG10 - Glass Reinforced Polyester (RAL7001 grey) BPGC10 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	2150g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket) -70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2) ATEX EEx'ha' BS EN 50021 (Zone 2) NEMA 4X (CSA, UL & FM (class 1 division 2) GOST-R Ex'e' (Zone 1 & 2)
Power Rating	13.793W

BPG 11 / BPGC 11 Drawing

2

BPG Range



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix			
Entry Size	Side A-C	Side B-D	
M16	36	6	
M20	24	4	
M25	14	2	
M32	8	1	
M40	8	0	

Drilling Envelope

Side A-C
242 x 65mm (x 2)

Side B-D
80 x 60mm



BPG 11 Photo

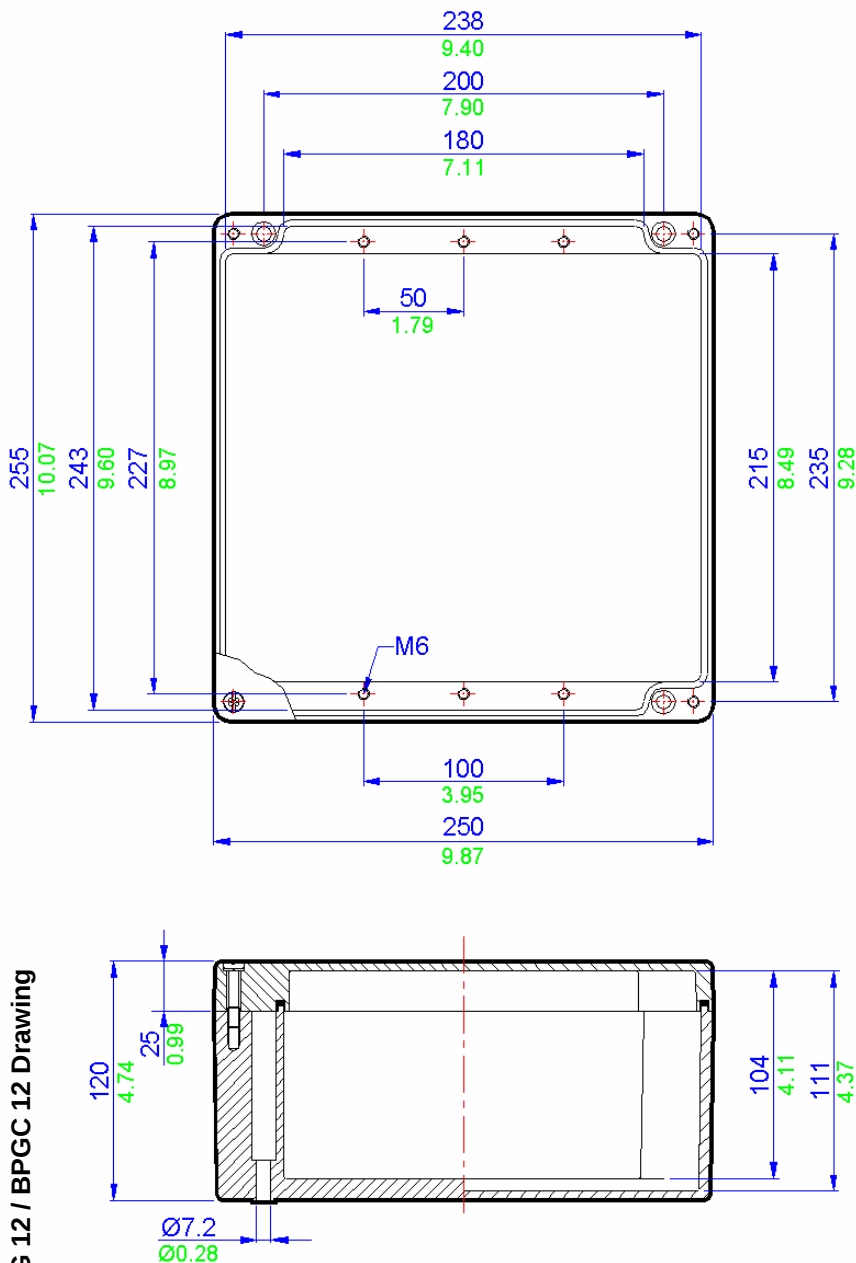


Terminal Populations				1
Maximum Number of Rows		Wago		
Weidmuller				
BK4 (4 way)	14	280-992		96
BK6 (6 way)	10	280-999		96
BK12 (12way)	5	281-691		82
MK6/3	11	281-992		82
MK6/4	11	281-993		82
MK6/6	7	282-691		63
SAK2.5	85	284-691 *		51
SAK4	78	283-691 *		42
SAK6N	64	285-691		0
SAK10 *	51	280-998		96
SAK16 *	43	281-998		82
SAK35 *	32	264-120		85
Entelec				
		264-220		51
MA2.5/5	101	264-132 (2)		18
M4/6	85	264-134 (4)		12
M6/8	64	262-132 (2)		17
M10/10 *	51	262-134 (4)		12
M16/12 *	43			
M35/16 *	32			

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 11 / BPGC 11 Specifications		560mm
Width		560mm
Length		160mm
Depth		90mm
Material	BPG11 - Glass Reinforced Polyester (RAL7001 grey)	
	BPGC11 - Carbon Loaded Glass Reinforced Polyester (Black)	
Weight	3200g	
IP Rating	66/67	
Temperature	-40° to 80° C (standard neoprene gasket)	
	-70° to 130° C (silicone gasket)	
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)	
	ATEX EEx'ha' BS EN 50021 (Zone 2)	
	NEMA 4X (CSA, UL & FM (class 1 division 2)	
	GOST-R Ex'e' (Zone 1 & 2)	
Power Rating	18.338W	

BPG 12 / BPGC 12 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Glass Reinforced Polyester Enclosures

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	24	18
M20	15	12
M25	10	8
M32	5	4
M40	4	3

Drilling Envelope	
Side A-C	205 x 90mm
Side B-D	170 x 85mm



BPG 12 Photo



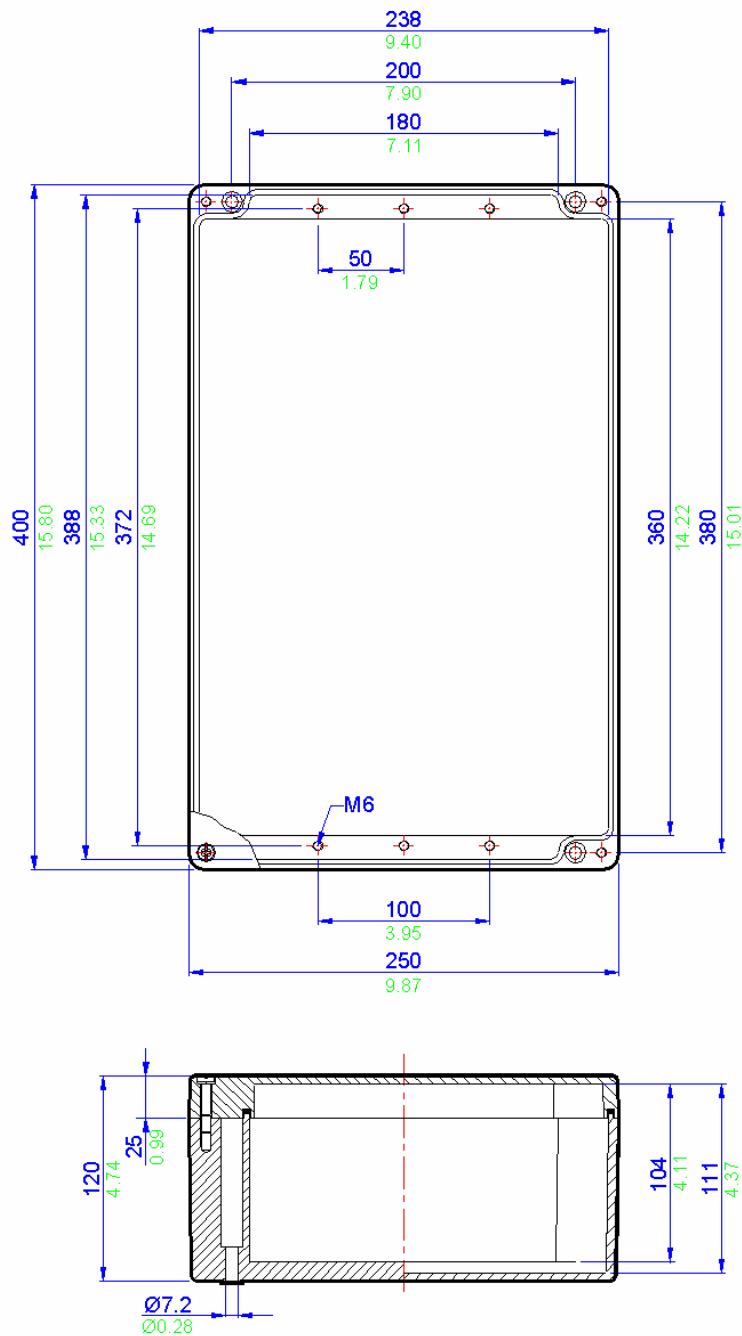
Terminal Populations			2
Maximum Number of Rows	Wago		
Weidmuller			
BK4 (4 way)	12	280-992	78
BK6 (6 way)	8	280-999	78
BK12 (12 way)	4	281-691	66
MK6/3	8	281-992	66
MK6/4	8	281-993	66
MK6/6	6	282-691	52
SAK2.5	70	284-691 *	42
SAK4	66	283-691 *	17
SAK6N	54	285-691	12
SAK10 *	42	280-998	78
SAK16 *	36	281-998	66
SAK35 *	26	264-120	70
Entelec			42
MA2.5/5	84	264-132 (2)	14
M4/6	70	264-134 (4)	10
M6/8	54	262-132 (2)	14
M10/10 *	42	262-134 (4)	8
M16/12 *	36		
M35/16 *	26		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 12 / BPGC 12 Specifications	
Width	255mm
Length	250mm
Depth	120mm
Material	BPG12 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC12 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	3200g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'ha' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
	GOST-R Ex'e' (Zone 1 & 2)
Power Rating	15.474W

Technical	9
Specials	8
ZP Range	7
Fire Rated	6
High Voltage	5
ZAG Range	4
BPGA Range	3
BPG Range	2
SX Range	1

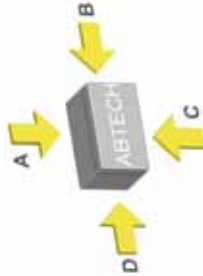
BPG 13 / BPGC 13 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	39	18
M20	26	12
M25	18	8
M32	8	4
M40	6	3

Drilling Envelope	
Side A-C	350 x 89mm
Side B-D	170 x 84mm



BPG 13 Photo



Terminal Populations			2
Maximum Number of Rows		Wago	
Weidmuller			
BK4 (4 way)	20	280-992	132
BK6 (6 way)	14	280-999	132
BK12 (12 way)	6	281-691	114
MK6/3	14	281-992 *	114
MK6/4	14	281-993	114
MK6/6	10	282-691	88
SAK2.5	118	284-691 *	70
SAK4	108	283-691 *	29
SAK6N	88	285-691	20
SAK10 *	72	280-998	132
SAK16 *	60	281-998	114
SAK35 *	44	264-120	118
Entelec			70
MA2.5/5	140	264-132 (2)	24
M4/6	118	264-134 (4)	16
M6/8	88	262-132 (2)	24
M10/10 *	72	262-134 (4)	16
M16/12 *	60		
M35/16 *	44		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 13 / BPGC 13 Specifications	
Width	400mm
Length	250mm
Depth	120mm
Material	BPG13 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC13 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	3650g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'h'a' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
	GOST-R Ex'e' (Zone 1 & 2)
Power Rating	20.867W

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

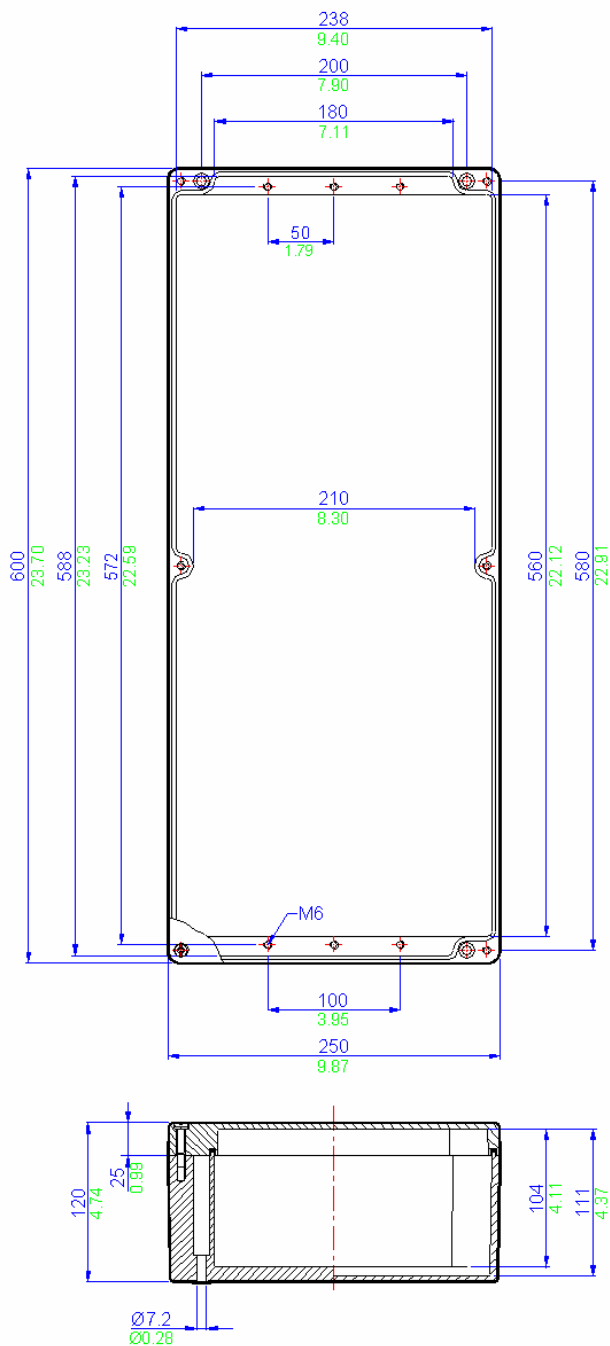
Specials

8

Technical

9

BPG 14 / BPGC 14 Drawing



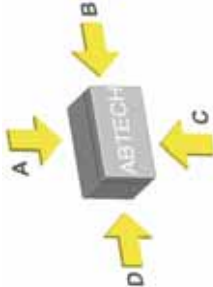
All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	60	18
M20	36	12
M25	24	8
M32	10	4
M40	8	3

Drilling Envelope

Side A-C
260 x 90mm (x 2)

Side B-D
168 x 85mm



BPG 14 Photo



Terminal Populations				2
Maximum Number of Rows		Wago		
Weidmuller				
BK4 (4 way)	30	280-992	132	
BK6 (6 way)	22	280-999	132	
BK12 (12 way)	12	281-691	114	
MK6/3	22	281-992 *	114	
MK6/4	22	281-993	114	
MK6/6	14	282-691	88	
SAK2.5	182	284-691 *	70	
SAK4	168	283-691 *	29	
SAK6N	138	285-691 *	20	
SAK10 *	110	280-998	132	
SAK16 *	92	281-998	114	
SAK35 *	70	264-120	118	
Entrelec				
MA2.5/5	218	264-132 (2)	24	
M4/6	182	264-134 (4)	16	
M6/8	138	262-132 (2)	24	
M10/10 *	110	262-134 (4)	16	
M16/12 *	92			
M35/16 *	70			

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 14 / BPGC 14 Specifications	
Width	600mm
Length	250mm
Depth	120mm
Material	BPG14 - Glass Reinforced Polyester (RAL7001 grey)
	BPGC14 - Carbon Loaded Glass Reinforced Polyester (Black)
Weight	5235g
IP Rating	66/67
Temperature	-40° to 80° C (standard neoprene gasket)
	-70° to 130° C (silicone gasket)
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)
	ATEX EEx'ha' BS EN 50021 (Zone 2)
	NEMA 4X (CSA, UL & FM (class 1 division 2)
Power Rating	GOST-R Ex'e' (Zone 1 & 2)
	30.384W

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

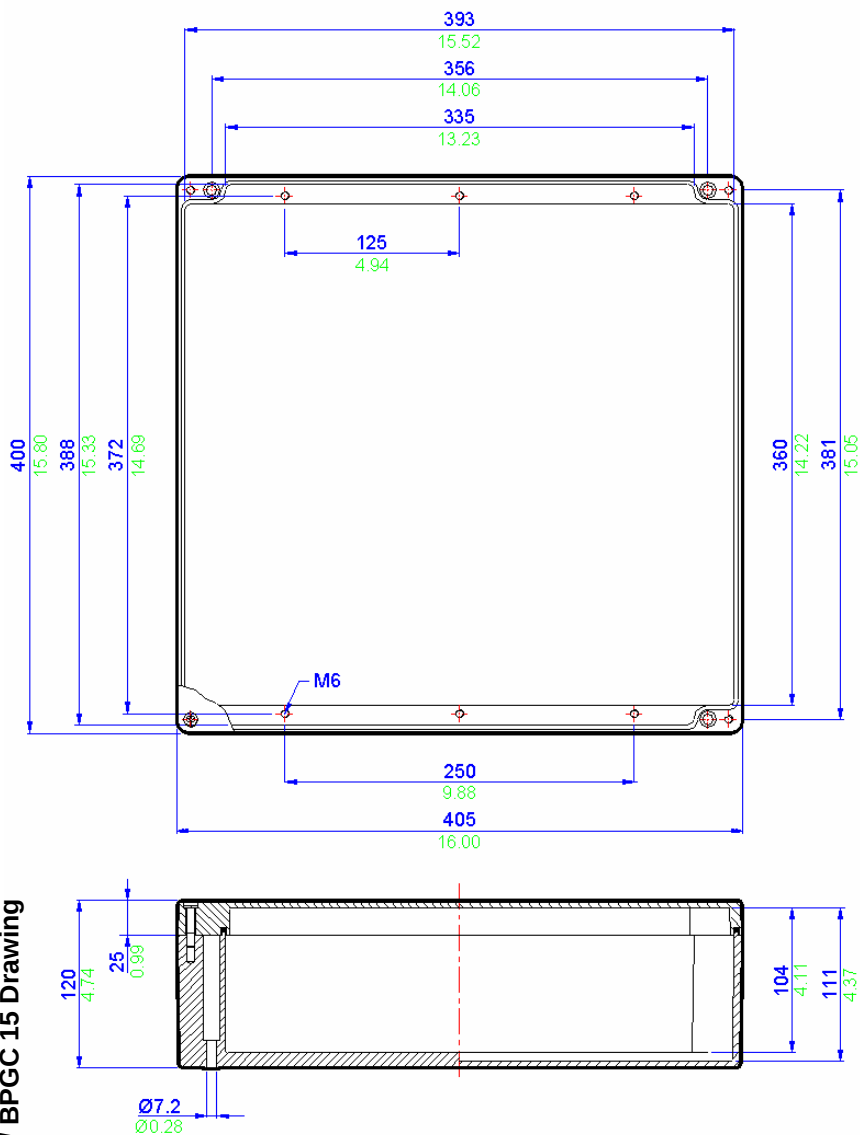
Specials

8

Technical

9

BPG 15 / BPGC 15 Drawing

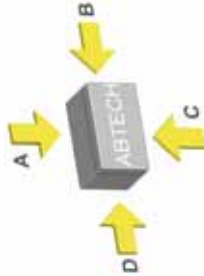


All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	39	33
M20	26	20
M25	18	16
M32	8	7
M40	6	5

Drilling Envelope

Side A-C	352 x 89mm
Side B-D	327 x 84mm



BPG 15 Photo



Terminal Populations			2
Maximum Number of Rows		Wago	
Weidmuller			
BK4 (4 way)	30	280-992	198
BK6 (6 way)	21	280-999	198
BK12 (12 way)	9	281-691	171
MK6/3	21	281-992 *	171
MK6/4	21	281-993	171
MK6/6	15	282-691	132
SAK2.5	177	284-691 *	105
SAK4	162	283-691 *	58
SAK6N	132	285-691 *	40
SAK10 *	108	280-998	198
SAK16 *	90	281-998	171
SAK35 *	66	264-120	177
Entrelec			
		264-220	101
MA2.5/5	210	264-132 (2)	36
M4/6	177	264-134 (4)	24
M6/8	132	262-132 (2)	36
M10/10 *	108	262-134 (4)	24
M16/12 *	90		
M35/16 *	66		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

BPG 15 / BPGC 15 Specifications		
Width	400mm	
Length	405mm	
Depth	120mm	
Material	BPG15 - Glass Reinforced Polyester (RAL7001 grey)	
	BPGC15 - Carbon Loaded Glass Reinforced Polyester (Black)	
Weight	5580g	
IP Rating	66/67	
Temperature	-40° to 80° C (standard neoprene gasket)	
	-70° to 130° C (silicone gasket)	
Certification	ATEX EEx'e' BS EN 50019 (Zone 1 & 2)	
	ATEX EEx'ha' BS EN 50021 (Zone 2)	
	NEMA 4X (CSA, UL & FM (class 1 division 2)	
	GOST-R Ex'e' (Zone 1 & 2)	
Power Rating	31.350W	



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