

8

Specials

SX Range
1

BPC Range
2

BPGA Range
3

ZAG Range
4

High Voltage
5

Fire Rated
6

ZP Range
7

Specials
8

Technical
9

GRN Enclosures

The ABTECH GRN8 enclosure has been designed as a cost-effective junction box for use in hazardous areas. There are a number of terminal and entry configurations available, resulting in a highly versatile enclosure which is suitable for a wide variety of installations.

The enclosure is manufactured in a UL approved UV stabilised polycarbonate and is available as a pre-assembled terminal box or as an empty enclosure for OEM applications.



It can be supplied with the option of a terminal rail, an internal chassis plate or directly mounted terminals for cables up to 4 sq mm.

The GRN8 is a competitive product for lower risk applications in both safe and hazardous areas. It is designed to operate within the ambient temperature range of - 20°C to + 40°C but for non hazardous application the upper ambient temperature range can be extended to + 90°C. As well as being UV stable, polycarbonate is resistant to a wide variety of chemicals. The use of silicone rubber lid gasket and 316 stainless steel lid fixings ensures that the chemical resistance of the GRN8 is not compromised.

Earthing can be accomplished by various means. The provision of an internal/external earth/ground stud is optional or one of the terminals can be dedicated to earthing / grounding functions.

Additionally, there is the facility to mount an earth bar inside the box which can be used to terminate and connect as many earthing wires as there are cable entries.

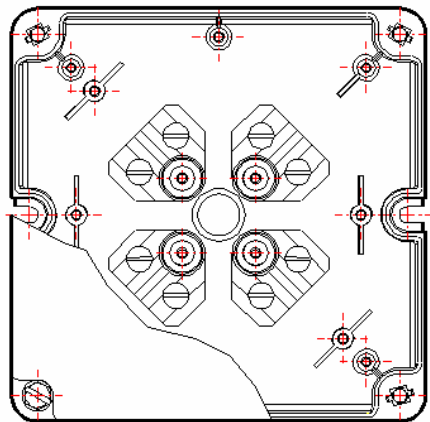
This method is useful for the equi-potential bonding of metal cable glands and an additional equi-potential wire can be linked to the internal/external earth stud to facilitate a positive connection to the 'plant dirty' earthing system. The earth bar can alternatively be used as a clean earth for instrumentation as it can be electrically isolated from the dirty earth.



The GRN8 is ATEX certified for use in Zone 1 hazardous areas EEx'e' to BS EN 50019:2000 for Zone 1 and Zone 2 applications, BS EN 50281-1 for Zone 21 and Zone 22 applications and EEx'nA' to BS EN 50021 for Zone 2 applications.

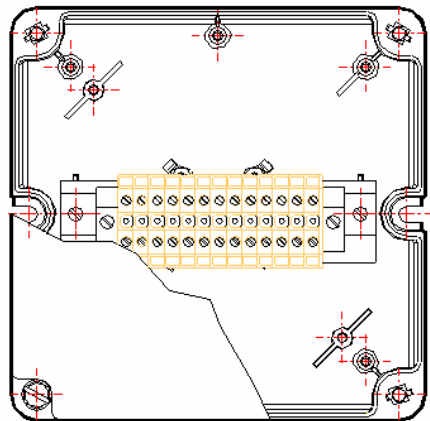


GRN 8 Terminal Options



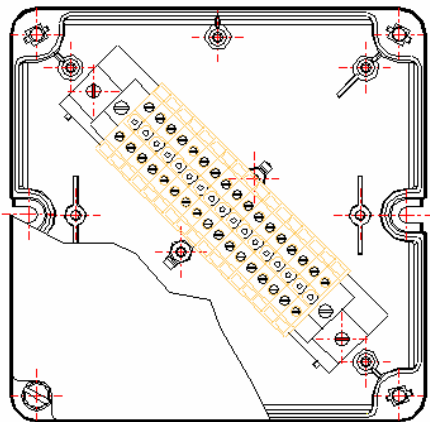
Option One

Up to 8 post / mantle type EEx'e' terminals
(up to 2 x 4mm² conductors per terminal)
Star configuration



Option Two

Up to 13 screw/clamp type EEx'e' terminals
(for conductors up to 2.5mm²)
See table on page 189 for other terminal types
Horizontal / Vertical configuration



Option Three

Up to 17 screw/clamp type EEx'e' terminals
(for conductors up to 2.5mm²)
See table on page 189 for other terminal types
Diagonal configuration

Technical

9

Specials

8

ZP Range

7

Fire Rated

6

High Voltage

5

ZAG Range

4

BPGA Range

3

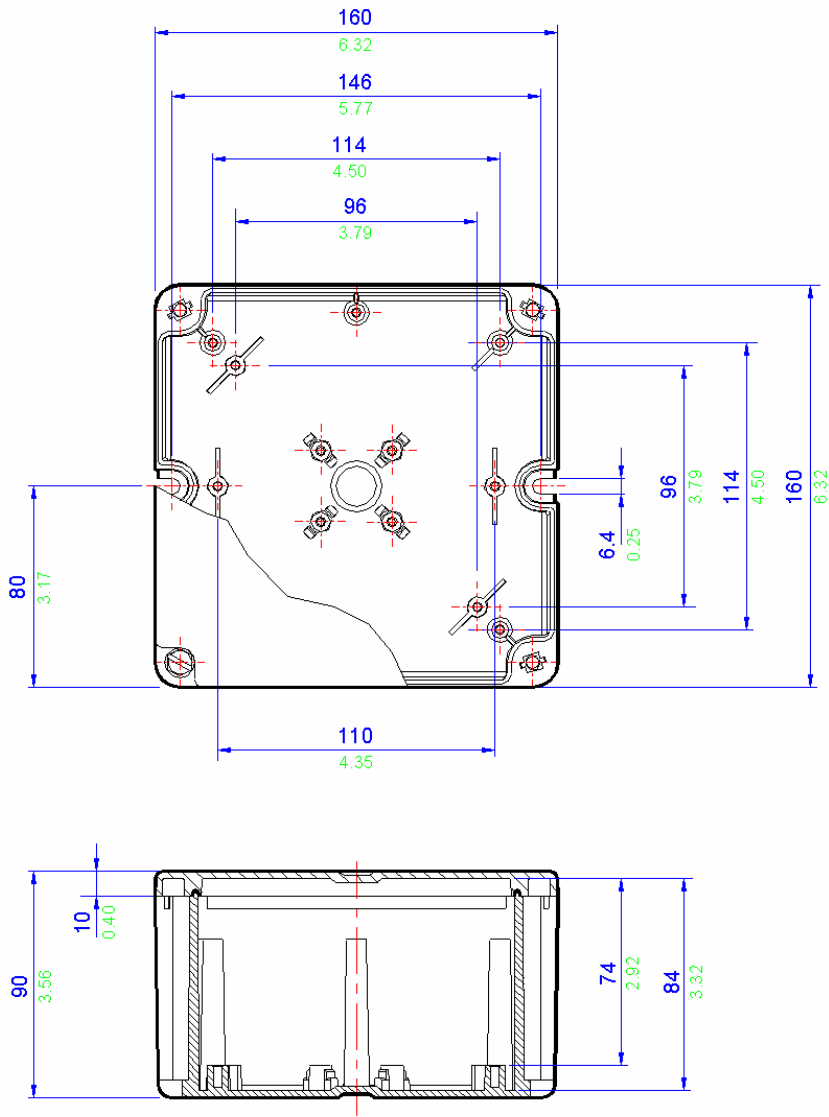
BPGC Range

2

SX Range

1

GRN 8 Drawing



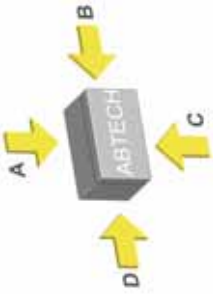
All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

GRN 8 Specifications	
Width	160mm
Length	160mm
Depth	90mm
Material	Moulded Polycarbonate (RAL7035 grey)
	Moulded ABS (RAL7035 grey)
Weight	Polycarbonate 40g ABS 38g
IP Rating	65
Temperature	Polycarbonate versions -40°C to 80°C (with standard neoprene gasket)
	Polycarbonate versions -40°C to 120° C (with optional silicone gasket)
Certification	ABS versions -40° to 65° C
	NEMA Types 1, 4X, 12
	UL
Power Rating	Not Applicable


Terminal Populations		
Maximum Number of Rows		1
	Weidmuller	Phoenix
BK4 (4 way)	3	G5 \ 4 (4 way)
BK6 (6 way)	2	G5 \ 6 (6 way)
BK12 (12 way)	1	G5 \ 12 (12 way)
MK6/4	2	UK 3 N
MK6/6	1	UK 5 N
SAK2.5	17	UK 10 N
SAK4	17	UK 16 N
SAK6N	14	UK 35 N
SAK10	11	
SAK16	9	
SAK35	5	
	Entelec	
	MA2.5/5	21
	M4/6	17
	M6/8	14
	M10/10	11
	M16/12	9
	M35/16	6

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

Drilling Envelope	
Side A-C	28 x 22mm
Side B-D	26 x 22mm



GRN 8 Photo



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