ZP

ABS and Polycarbonate Enclosures

The ABTECH ZP range of enclosures comprises of 19 different sizes which are injection moulded in either ABS plastic or polycarbonate material. There is also an option of a clear polycarbonate lid which can be fitted to either base.

The enclosures are lightweight yet extremely robust and offer good protection against both corrosion and oil based contamination. The enclosure shares the labyrinth seal arrangement which is common to both the ZAG and BPG ranges and can offer protection up to IP65.

Stainless steel captive quick release quarter turn screws are fitted as standard offering a quick yet reliable method of securing the lid. This can provide a considerable cost saving in assembly times with on-average savings of 2 minutes per enclosure over conventional screws. As an option conventional threaded screws may be fitted if required.

The ZP range is an extremely versatile enclosure with many uses and applications including junction boxes, instrument enclosures and a multitude of OEM applications. The addition of the clear lid makes the ZP range particularly suitable for housing instruments and indicators where a visual indication is required without the need for opening the enclosure. The range can be machined, drilled and tapped with various thread forms and can also be silk screen printed. The ZP range can also be moulded in almost any colour subject to minimum quantities. At our factories in England, Germany and the United States we have specialist machining centres for the ZP range of enclosure.

These machines use the dedicated tooling and programming which is specific to the requirements of the material and reflect the increasing usage of this enclosure range, especially in small batch production.

Internal components are located via a series of moulded pillars which can be fitted with threaded inserts or alternatively can accept self tapping screws and these are used for the fitment of a component mounting plate or DIN standard terminal mounting rails such as TS 15, TS 32 or TS 35.

Earthing can be accomplished through various means. For example, an internal / external earth stud, which in turn can be connected to the terminal mounting rail or component plate can be used as well as various rail mounted earth terminals or proprietary earth bars which can be fitted inside the enclosure.

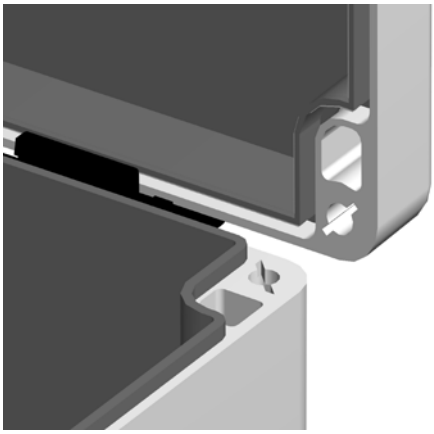
The screening against RFI (radio frequency interference) is achieved by the use of a metalised coating of 50 micron thickness to the internal surfaces of the enclosure and the fitment of an RFI gasket. The ABTECH Sales team can give advice on suitable RFI gaskets and finishing techniques which will provide optimum protection but typically the following characteristics are achievable:

Electrical Attenuation:
55 – 65dB @ 500MHz to 1000MHz

Magnetic Attenuation:
35dB @ 40KHz to 300MHz

ZP Range Features

- Wide Operating Temperature
- Ingress Protection up to IP65
- Available in Polycarbonate and ABS
- Optional Transparent lid
- Can be moulded any colour (subject to minimum quantities)
- Can be easily machined and silk screen printed
- Ideal for Instrument housings and junction boxes



Accessories and Options

The following table is a list of the available accessories suitable for particular sizes of ZP enclosure.

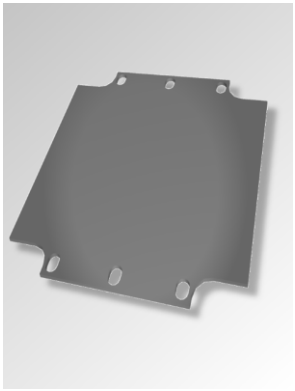
Part Number	Width (mm)	Length (mm)	Depth (mm)	**P** (or no suffix) Polycarbonate	**ABS** - ABS	**T** - Transparent Lid (moulded polycarbonate)	**TS** - Threaded Lid Fixing Screws (see note 1)	**MP** - Component Mounting Plate	**EH** - External Hinges	**EB** - Internal Earthing Bar	**MF** - External Mounting Feet	**MR** - DIN Standard Mounting Rail	**RF** - RFI Protection (see note 2)
ZP1	52	50	35	●	●	●		●			●		●
ZP2	65	50	35	●	●	●	●	●			●	●	●
ZP3	82	80	55	●	●	●	●	●	●	●	●	●	●
ZP4	82	80	85	●	●	●	●	●	●	●	●	●	●
ZP5	120	80	55	●	●	●	●	●	●	●	●	●	●
ZP6	120	80	85	●	●	●	●	●	●	●	●	●	●
ZP7	160	80	55	●	●	●	●	●	●	●	●	●	●
ZP8	160	80	85	●	●	●	●	●	●	●	●	●	●
ZP9	122	120	55	●	●	●	●	●	●	●	●	●	●
ZP10	122	120	85	●	●	●	●	●	●	●	●	●	●
ZP11	200	120	75	●	●	●	●	●	●	●	●	●	●
ZP12	200	150	75	●	●	●	●	●	●	●	●	●	●
ZP13	240	120	100	●	●	●	●	●	●	●	●	●	●
ZP14	240	160	90	●	●	●	●	●	●	●	●	●	●
ZP15	250	160	90	●	●	●	●	●	●	●	●	●	●
ZP16	240	160	120	●	●	●	●	●	●	●	●	●	●
ZP17	300	230	85	●	●	●	●	●	●	●	●	●	●
ZP18	360	200	150	●	●	●	●	●	●	●	●	●	●
ZP19	300	230	110	●	●	●	●	●	●	●	●	●	●

Ordering Example;

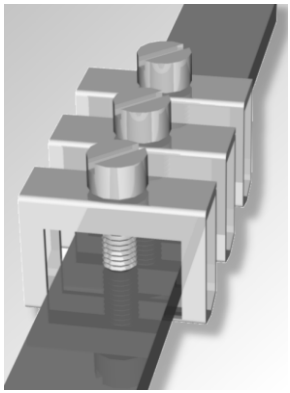
ZP12 ABS MF

(ZP12 moulded in ABS material with External Mounting Feet)

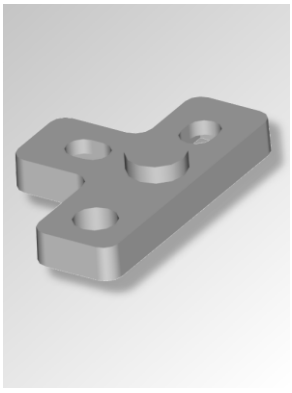
1. Standard lid fixing screws are ¼ turn quick release type.
2. Radio Frequency Interference (RFI) gasket may reduce IP rating. Enclosure may also be internally coated with RFI material.



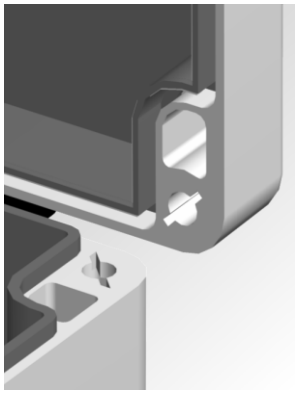
Component Mounting Plate
(tufnol as standard, steel an option)



Internal Earthing Bar
(can be fitted with clamps)

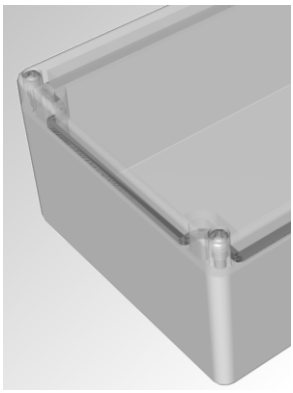


External Mounting Feet
(stainless steel 316)

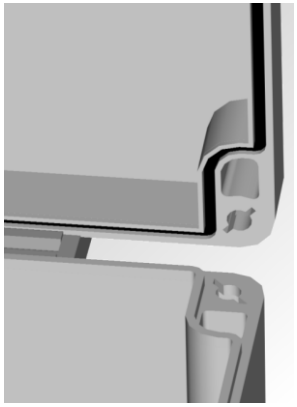


RFI Shielding
(metalised spray coating to interior)

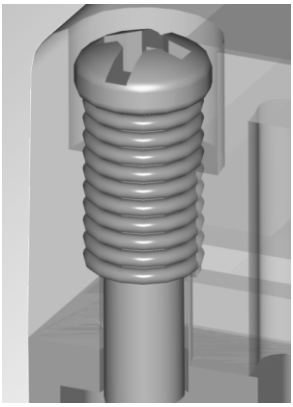
External Hinges



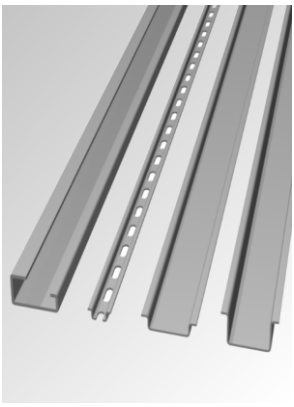
Transparent Lid
(moulded in polycarbonate)



Lid Seal Gasket



¼ Turn or Threaded Lid Fixing
Screws



DIN Standard Mounting Rail
(TS 15, TS 32 or TS 35)

ZP1 / ZP1 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 0)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	1
BK6 (6 way)	0
BK12 (12 way)	0
MK 6/3	0
MK 6/4	0
MK 6/6	0
SAK 2.5	0
SAK 4	0
SAK 6N	0
SAK 10	0
SAK 16	0
SAK 35	0

Entrelec	
MA2.5/5	0
M4/6	0
M6/8	0
M10/10	0
M16/12	0
M35/16	0

Phoenix	
G5\4 (4 way)	1
G5\6 (6 way)	0
G5\12 (12 way)	0
UK3 N	0
UK5 N	0
UK10 N	0
UK16 N	0
UK35 N	0

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	28	26
Height	22	22

Gland Entry Matrix *

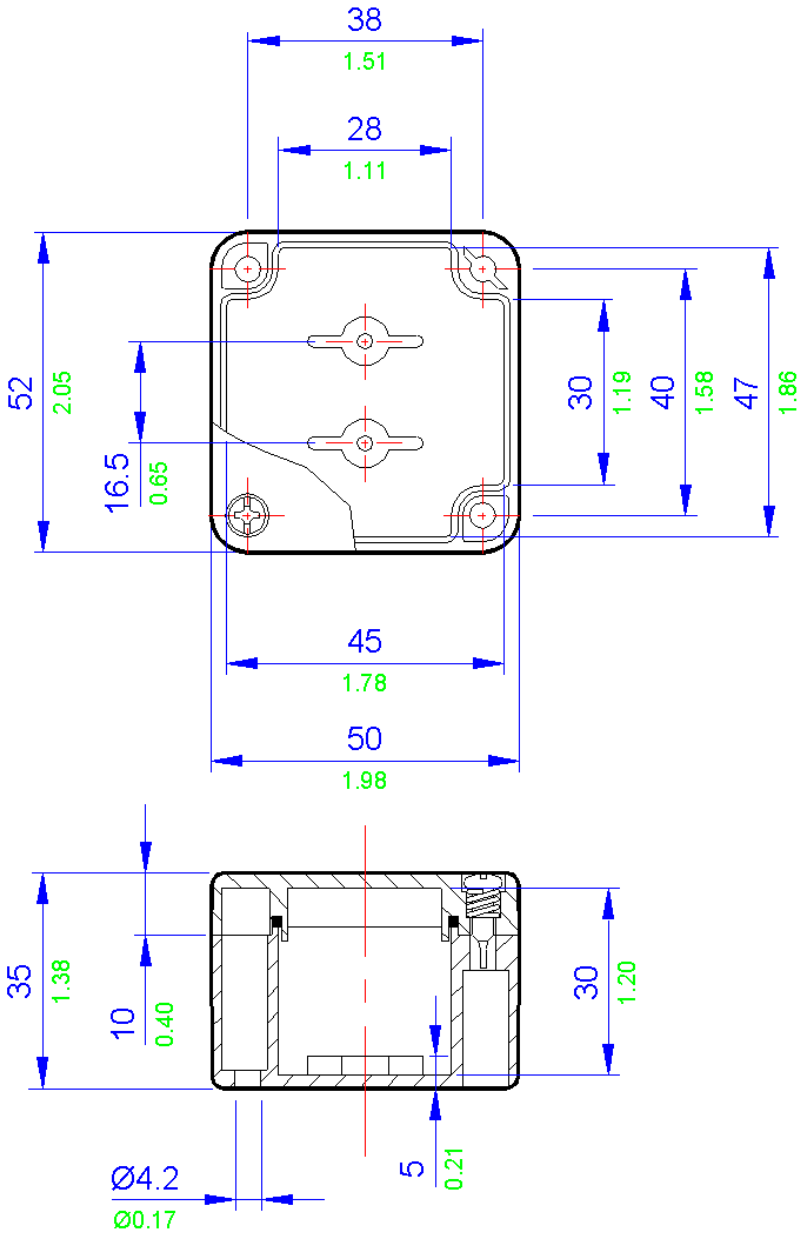
Size	Side A - C	Side B - D
M12	1	1
M16	0	0
M20	0	0
M25	0	0
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP1	Polycarbonate (RAL7035)	52	50	35	40
ZP1 ABS	ABS (RAL7035)	52	50	35	38

Technical Drawing



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

ZP2 / ZP2 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	1
BK6 (6 way)	0
BK12 (12 way)	0
MK 6/3	0
MK 6/4	0
MK 6/6	0
SAK 2.5	0
SAK 4	0
SAK 6N	0
SAK 10	0
SAK 16	0
SAK 35	0

Entrelec	
MA2.5/5	0
M4/6	0
M6/8	0
M10/10	0
M16/12	0
M35/16	0

Phoenix	
G5\4 (4 way)	1
G5\6 (6 way)	0
G5\12 (12 way)	0
UK3 N	0
UK5 N	0
UK10 N	0
UK16 N	0
UK35 N	0

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	41	26
Height	22	22

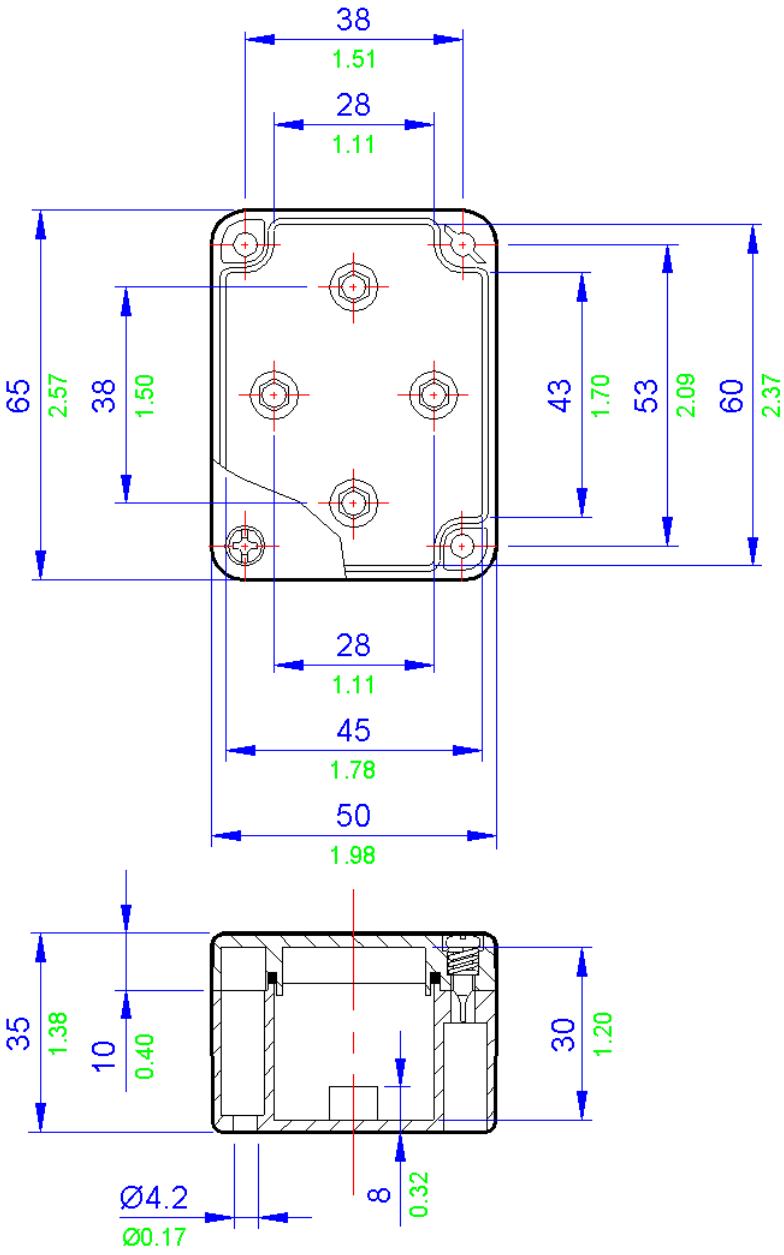
Gland Entry Matrix *

Size	Side A - C	Side B - D
M12	2	1
M16	0	0
M20	0	0
M25	0	0
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP2	Polycarbonate (RAL7035)	65	50	35	50
ZP2 ABS	ABS (RAL7035)	65	50	35	48



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

ZP3 / ZP3 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	2
BK6 (6 way)	1
BK12 (12 way)	0
MK 6/3	0
MK 6/4	0
MK 6/6	0
SAK 2.5	0
SAK 4	0
SAK 6N	0
SAK 10	0
SAK 16	0
SAK 35	0

Entrelec	
MA2.5/5	0
M4/6	0
M6/8	0
M10/10	0
M16/12	0
M35/16	0

Phoenix	
G5\4 (4 way)	2
G5\6 (6 way)	1
G5\12 (12 way)	0
UK3 N	0
UK5 N	0
UK10 N	0
UK16 N	0
UK35 N	0

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	56	36
Height	29	29

Gland Entry Matrix *

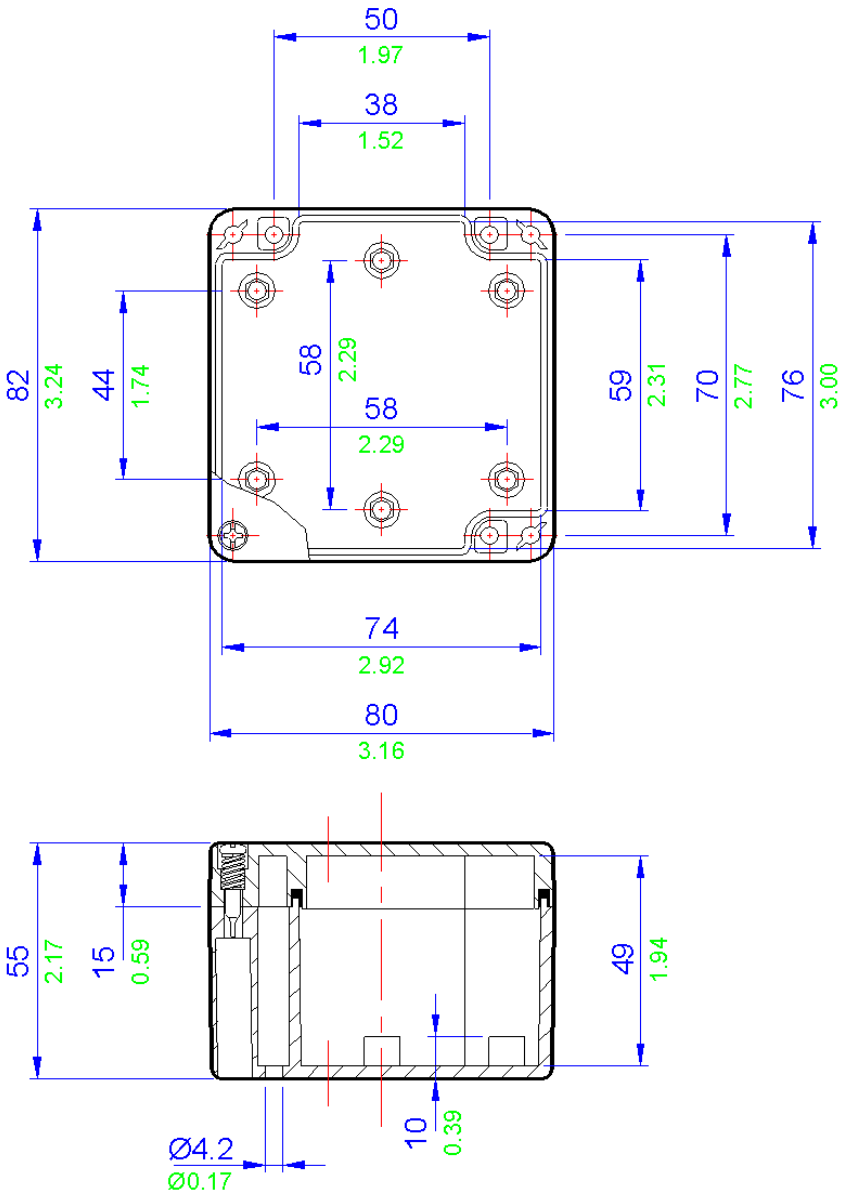
Size	Side A - C	Side B - D
M12	3	1
M16	0	0
M20	0	0
M25	0	0
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP3	Polycarbonate (RAL7035)	82	80	55	150
ZP3 ABS	ABS (RAL7035)	82	80	55	148

Technical Drawing



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

ZP4 / ZP4 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	2
BK6 (6 way)	1
BK12 (12 way)	0
MK 6/4	1
MK 6/6	0
SAK 2.5	5
SAK 4	5
SAK 6N	4
SAK 10	3
SAK 16	2
SAK 35	0

Entrelec	
MA2.5/5	6
M4/6	5
M6/8	3
M10/10	3
M16/12	1
M35/16	0

Phoenix	
G5\4 (4 way)	2
G5\6 (6 way)	1
G5\12 (12 way)	0
UK3 N	6
UK5 N	5
UK10 N	3
UK16 N	2
UK35 N	0

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	56	36
Height	59	59

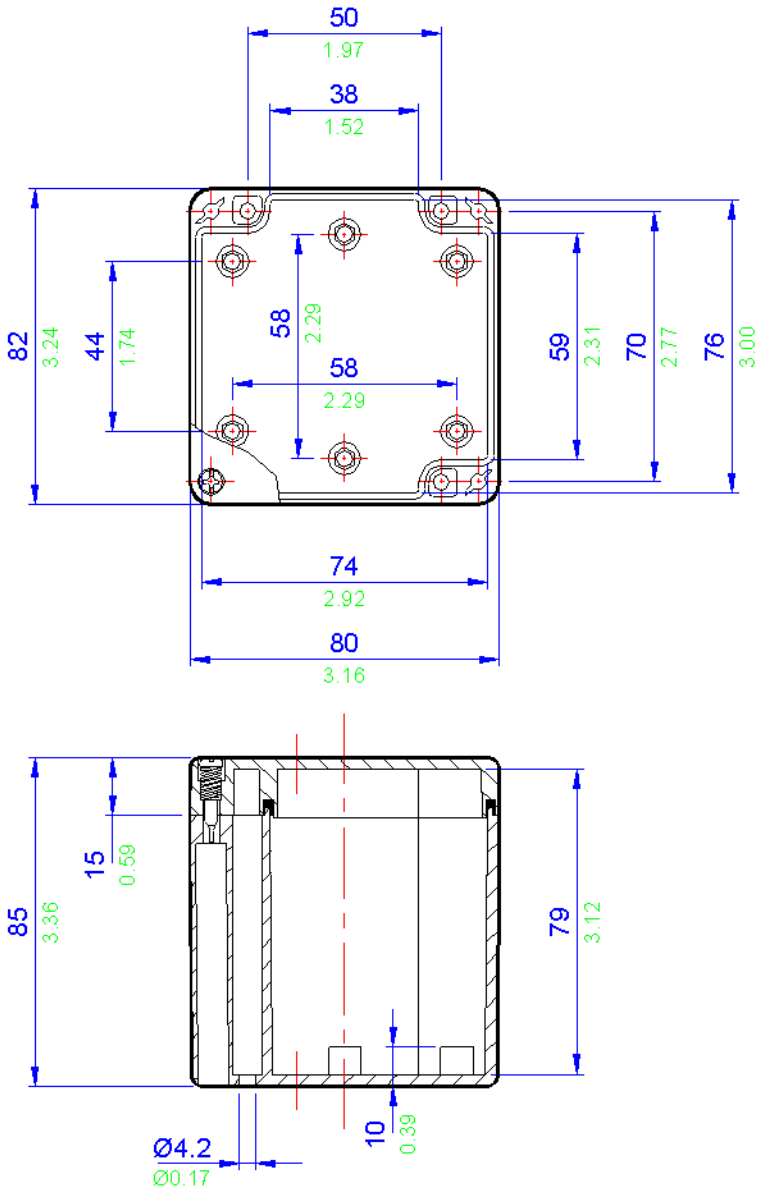
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP4	Polycarbonate (RAL7035)	82	80	85	175
ZP4 ABS	ABS (RAL7035)	82	80	85	156



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

ZP5 / ZP5 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	2
BK6 (6 way)	2
BK12 (12 way)	1
MK 6/4	2
MK 6/6	1
SAK 2.5	0
SAK 4	0
SAK 6N	0
SAK 10	0
SAK 16	0
SAK 35	0

Entrelec	
MA2.5/5	0
M4/6	0
M6/8	0
M10/10	0
M16/12	0
M35/16	0

Phoenix	
G5\4 (4 way)	2
G5\6 (6 way)	2
G5\12 (12 way)	1
UK3 N	0
UK5 N	0
UK10 N	0
UK16 N	0
UK35 N	0

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	94	36
Height	29	29

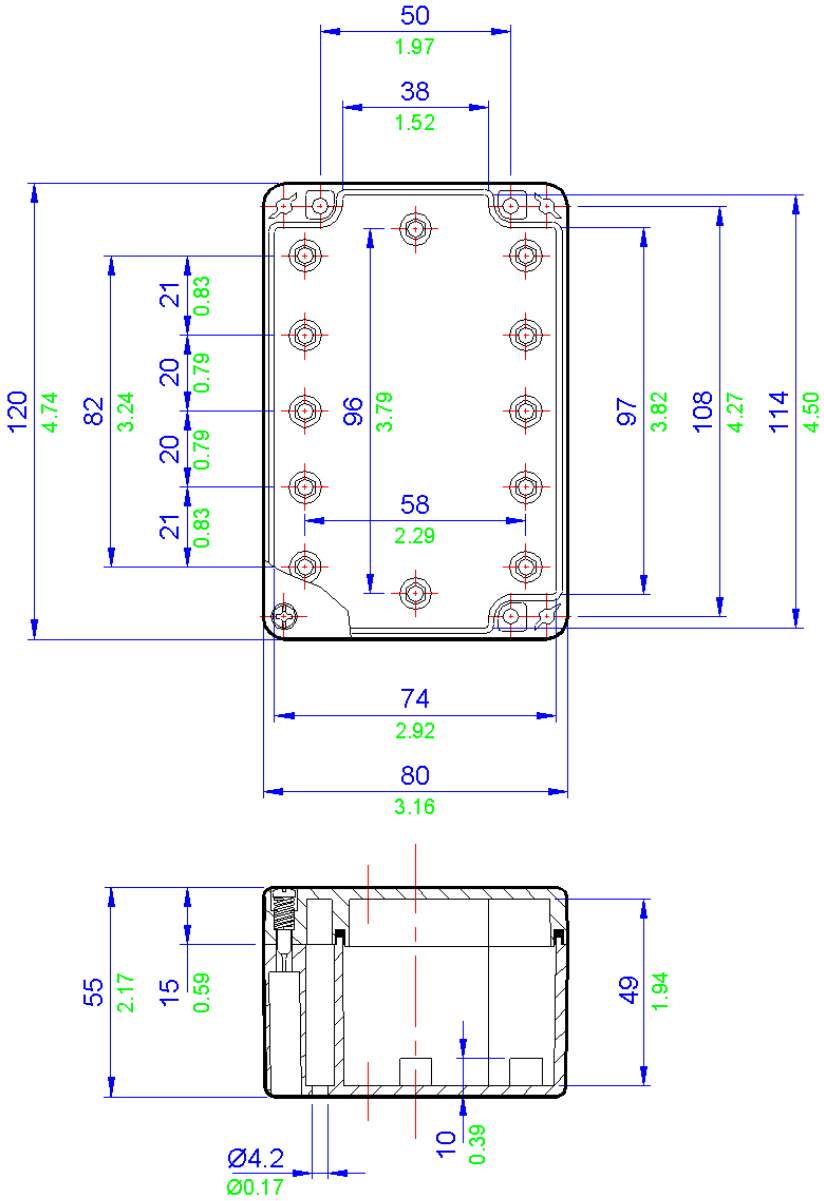
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP5	Polycarbonate (RAL7035)	120	80	55	175
ZP5 ABS	ABS (RAL7035)	120	80	55	165



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

ZP6 / ZP6 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	2
BK6 (6 way)	2
BK12 (12 way)	1
MK 6/4	1
MK 6/6	1
SAK 2.5	14
SAK 4	13
SAK 6N	10
SAK 10	8
SAK 16	7
SAK 35	5

Entrelec	
MA2.5/5	17
M4/6	14
M6/8	8
M10/10	8
M16/12	7
M35/16	5

Phoenix	
G5\4 (4 way)	2
G5\6 (6 way)	2
G5\12 (12 way)	1
UK3 N	16
UK5 N	13
UK10 N	8
UK16 N	6
UK35 N	5

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	94	36
Height	59	59

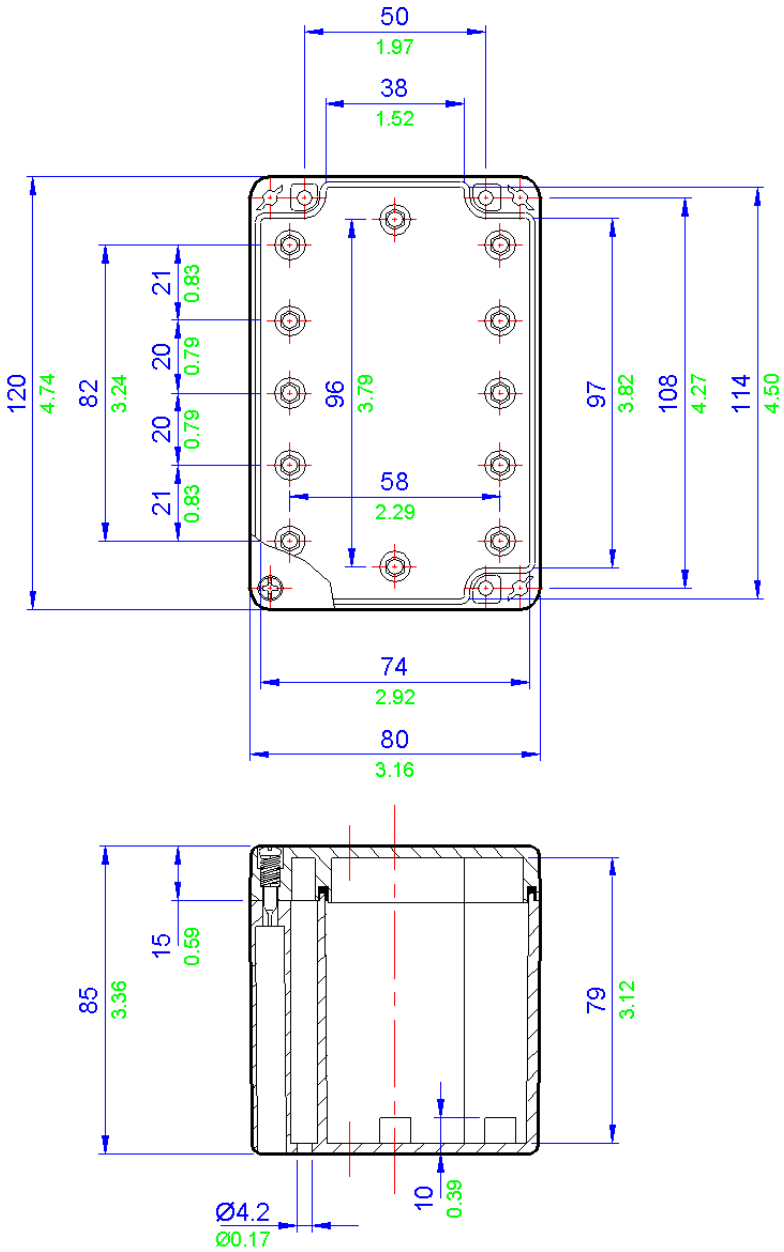
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP6	Polycarbonate (RAL7035)	120	80	85	225
ZP6 ABS	ABS (RAL7035)	120	80	85	205



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

ZP7 / ZP7 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	3
BK6 (6 way)	2
BK12 (12 way)	1
MK 6/4	2
MK 6/6	1
SAK 2.5	0
SAK 4	0
SAK 6N	0
SAK 10	0
SAK 16	0
SAK 35	0

Entrelec	
MA2.5/5	0
M4/6	0
M6/8	0
M10/10	0
M16/12	0
M35/16	0

Phoenix	
G5\4 (4 way)	3
G5\6 (6 way)	2
G5\12 (12 way)	1
UK3 N	0
UK5 N	0
UK10 N	0
UK16 N	0
UK35 N	0

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	134	36
Height	29	29

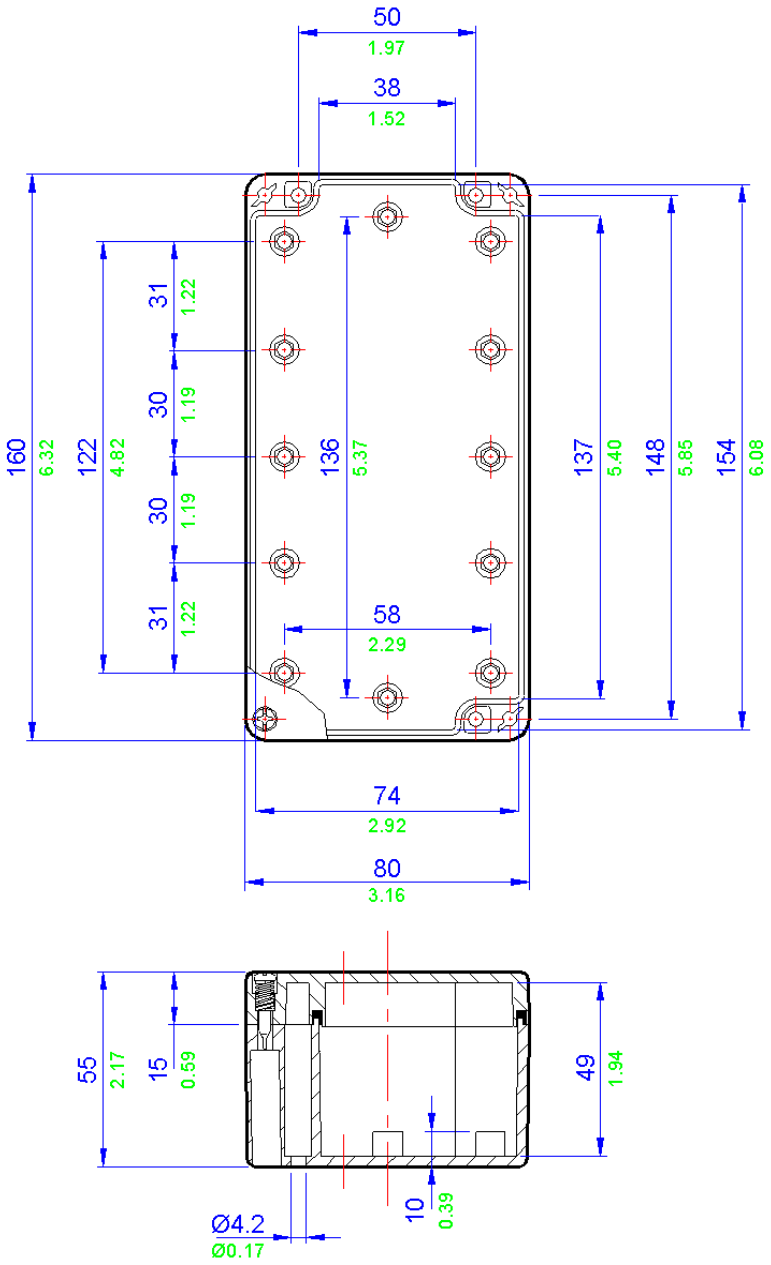
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP7	Polycarbonate (RAL7035)	160	80	55	225
ZP7 ABS	ABS (RAL7035)	160	80	55	205



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

ZP8 / ZP8 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	3
BK6 (6 way)	2
BK12 (12 way)	1
MK 6/4	2
MK 6/6	1
SAK 2.5	20
SAK 4	19
SAK 6N	15
SAK 10	12
SAK 16	10
SAK 35	7

Entrelec	
MA2.5/5	24
M4/6	20
M6/8	15
M10/10	12
M16/12	10
M35/16	7

Phoenix	
G5\4 (4 way)	3
G5\6 (6 way)	2
G5\12 (12 way)	1
UK3 N	23
UK5 N	19
UK10 N	11
UK16 N	9
UK35 N	7

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	59	59
Height	134	36

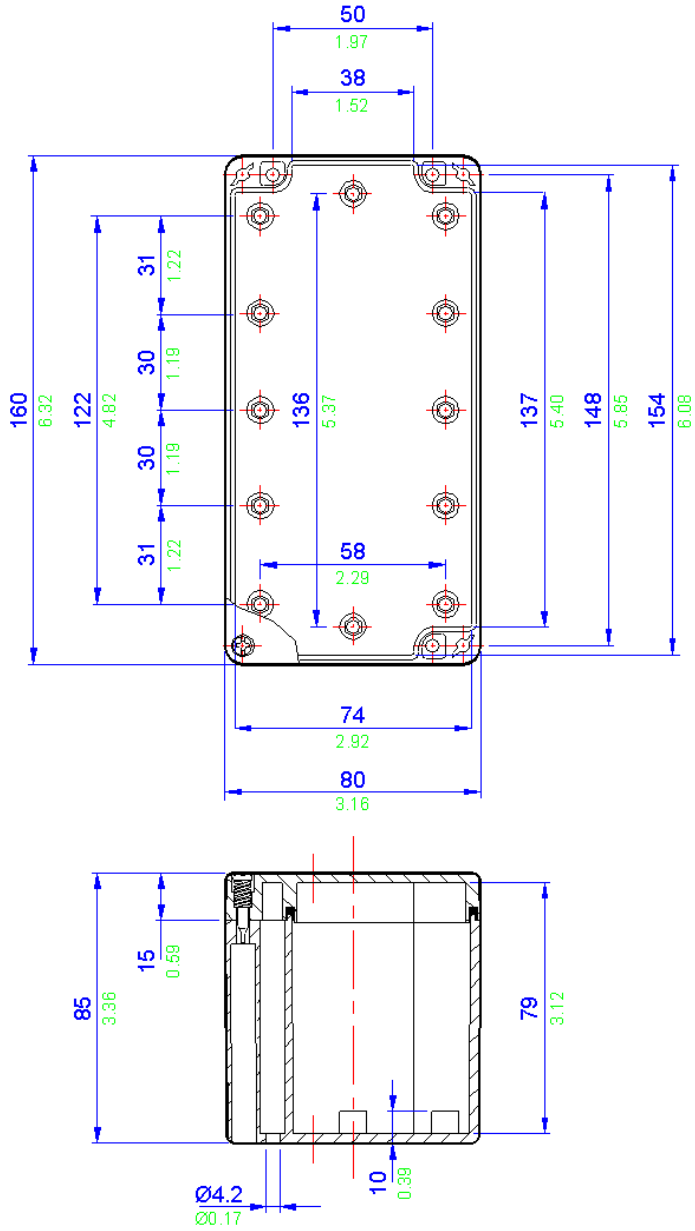
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP8	Polycarbonate (RAL7035)	160	80	85	250
ZP8 ABS	ABS (RAL7035)	160	80	85	235



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

ZP9 / ZP9 ABS

ABS and Polycarbonate Enclosures

IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	2
BK6 (6 way)	2
BK12 (12 way)	1
MK 6/4	2
MK 6/6	1
SAK 2.5	0
SAK 4	0
SAK 6N	0
SAK 10	0
SAK 16	0
SAK 35	0

Entrelec	
MA2.5/5	0
M4/6	0
M6/8	0
M10/10	0
M16/12	0
M35/16	0

Phoenix	
G5\4 (4 way)	2
G5\6 (6 way)	2
G5\12 (12 way)	1
UK3 N	0
UK5 N	0
UK10 N	0
UK16 N	0
UK35 N	0

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	96	76
Height	29	29

Gland Entry Matrix *

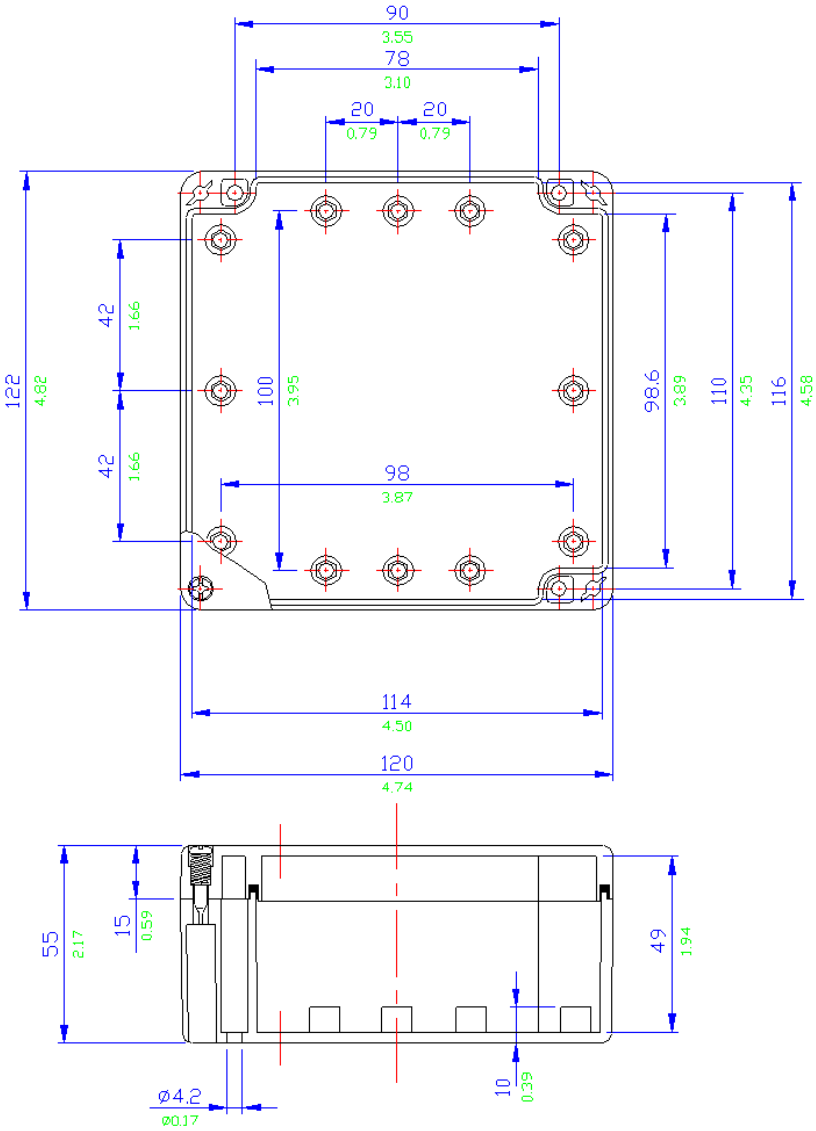
Size	Side A - C	Side B - D
M16	0	0
M20	0	0
M25	0	0
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP9	Polycarbonate (RAL7035)	122	120	55	240
ZP9 ABS	ABS (RAL7035)	122	120	55	220

Technical Drawing



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

ZP10 / ZP10 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	2
BK6 (6 way)	2
BK12 (12 way)	1
MK 6/4	2
MK 6/6	1
SAK 2.5	14
SAK 4	13
SAK 6N	10
SAK 10	8
SAK 16	7
SAK 35	5

Entrelec	
MA2.5/5	17
M4/6	14
M6/8	8
M10/10	8
M16/12	7
M35/16	5

Phoenix	
G5\4 (4 way)	2
G5\6 (6 way)	2
G5\12 (12 way)	1
UK3 N	16
UK5 N	13
UK10 N	8
UK16 N	6
UK35 N	5

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	96	76
Height	59	59

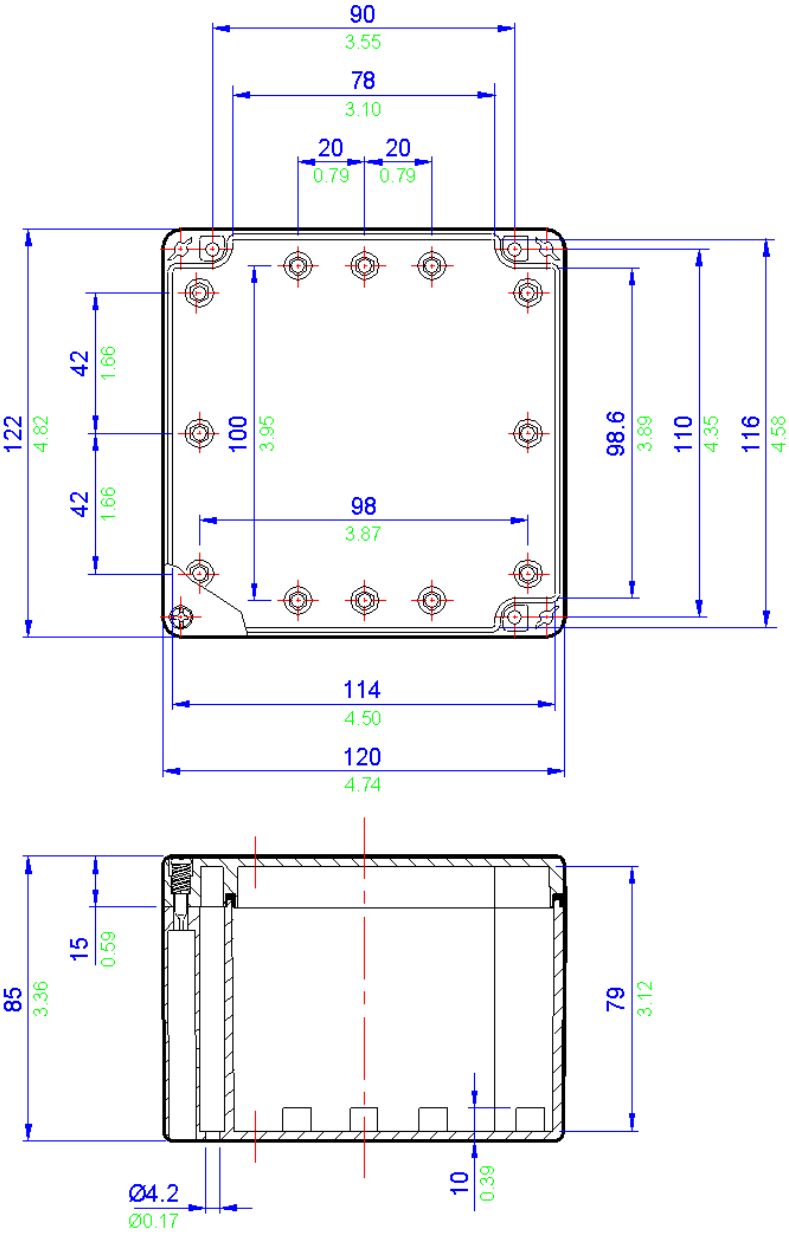
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP10	Polycarbonate (RAL7035)	122	120	85	295
ZP10 ABS	ABS (RAL7035)	122	120	85	270



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

ZP11 / ZP11 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 2)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	5
BK6 (6 way)	3
BK12 (12 way)	2
MK 6/4	3
MK 6/6	2
SAK 2.5	28
SAK 4	28
SAK 6N	21
SAK 10	16
SAK 16	14
SAK 35	7

Entrelec	
MA2.5/5	33
M4/6	28
M6/8	21
M10/10	16
M16/12	14
M35/16	10

G5\4 (4 way)	5
G5\6 (6 way)	3
G5\12 (12 way)	2
UK3 N	32
UK5 N	27
UK10 N	16
UK16 N	13
UK35 N	11

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	174	76
Height	48	48

Gland Entry Matrix *

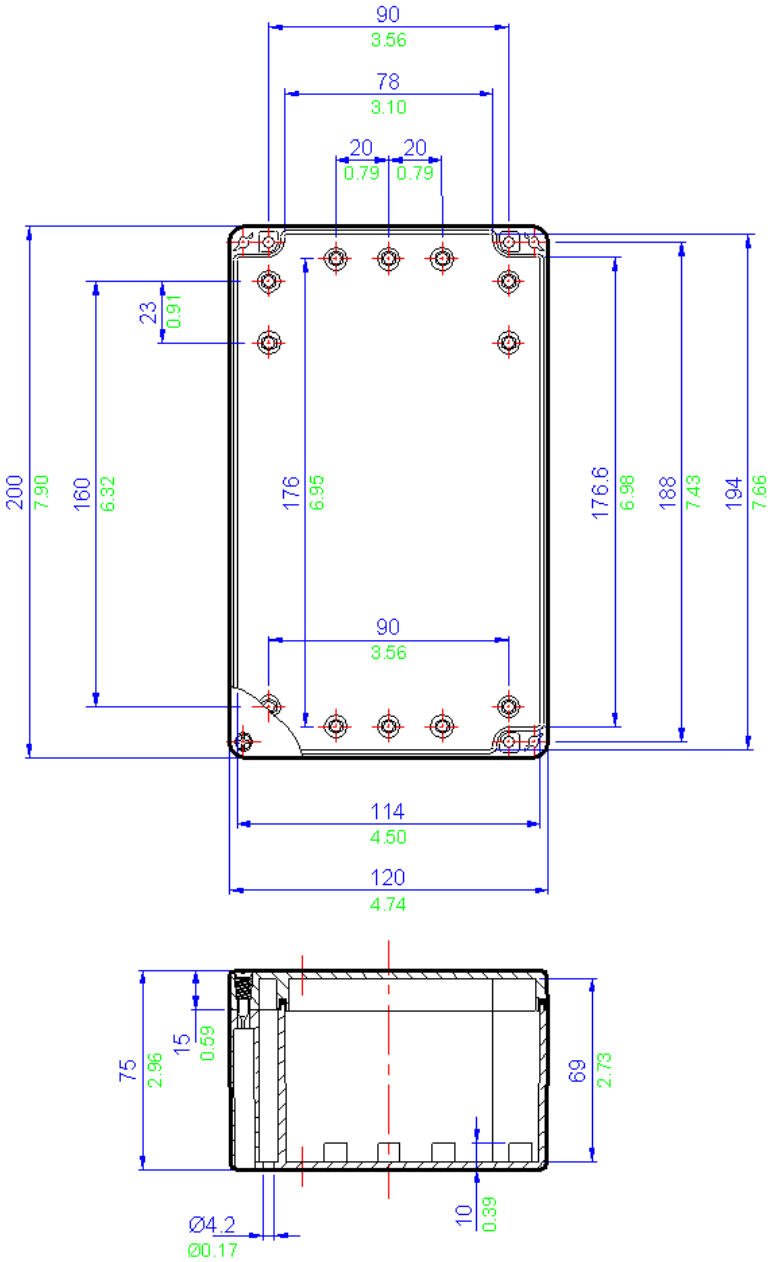
Size	Side A - C	Side B - D
M16	5	2
M20	4	1
M25	3	1
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP11	Polycarbonate (RAL7035)	200	120	75	400
ZP11 ABS	ABS (RAL7035)	200	120	75	380

Technical Drawing



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

ZP12 / ZP12 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	5
BK6 (6 way)	3
BK12 (12 way)	2
MK 6/4	3
MK 6/6	2
SAK 2.5	28
SAK 4	28
SAK 6N	21
SAK 10	16
SAK 16	14
SAK 35	7

Entrelec	
MA2.5/5	33
M4/6	28
M6/8	21
M10/10	16
M16/12	14
M35/16	10

Phoenix	
G5\4 (4 way)	5
G5\6 (6 way)	3
G5\12 (12 way)	2
UK3 N	32
UK5 N	27
UK10 N	16
UK16 N	13
UK35 N	11

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	174	106
Height	49	49

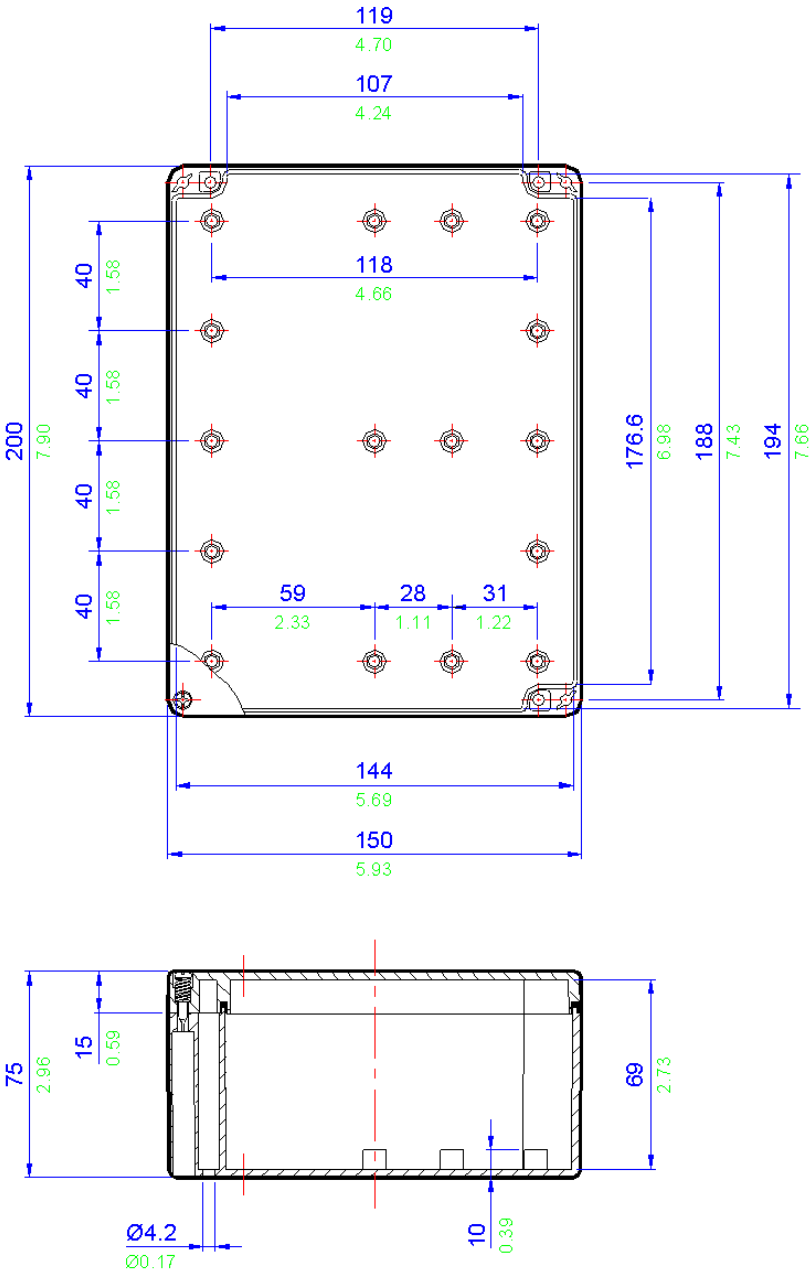
Gland Entry Matrix *

Size	Side A - C	Side B - D
M16	5	3
M20	4	2
M25	3	2
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP12	Polycarbonate (RAL7035)	200	150	75	475
ZP12 ABS	ABS (RAL7035)	200	150	75	440



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

ZP13 / ZP13 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	6
BK6 (6 way)	4
BK12 (12 way)	2
MK 6/4	4
MK 6/6	3
SAK 2.5	34
SAK 4	34
SAK 6N	25
SAK 10	20
SAK 16	17
SAK 35	11

Entrelec	
MA2.5/5	41
M4/6	34
M6/8	25
M10/10	20
M16/12	17
M35/16	12

Phoenix	
G5\4 (4 way)	6
G5\6 (6 way)	4
G5\12 (12 way)	2
UK3 N	39
UK5 N	33
UK10 N	20
UK16 N	16
UK35 N	13

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	214	76
Height	64	64

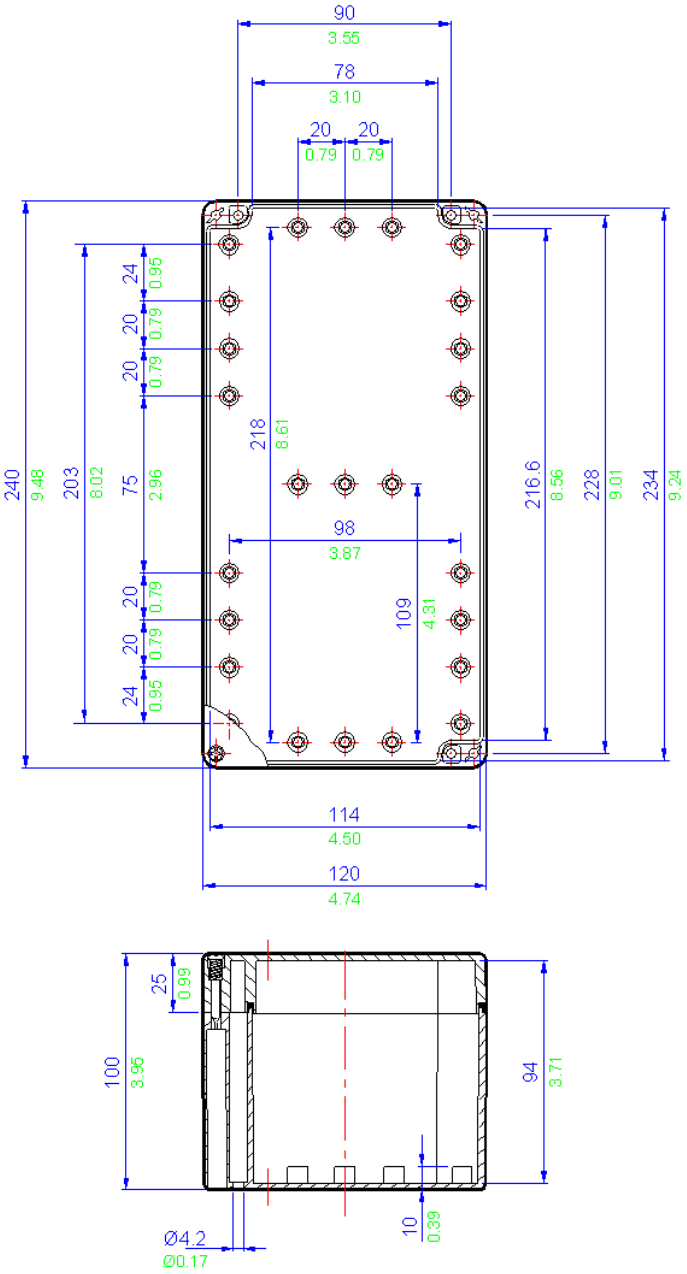
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP13	Polycarbonate (RAL7035)	240	120	100	550
ZP13 ABS	ABS (RAL7035)	240	120	100	495



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

ZP14 / ZP14 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	6
BK6 (6 way)	4
BK12 (12 way)	2
MK 6/4	4
MK 6/6	3
SAK 2.5	34
SAK 4	34
SAK 6N	25
SAK 10	20
SAK 16	17
SAK 35	11

Entrelec	
MA2.5/5	41
M4/6	34
M6/8	25
M10/10	20
M16/12	17
M35/16	12

Phoenix	
G5\4 (4 way)	6
G5\6 (6 way)	4
G5\12 (12 way)	2
UK3 N	39
UK5 N	33
UK10 N	20
UK16 N	16
UK35 N	13

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	100	106
Height	64 (x2)	64

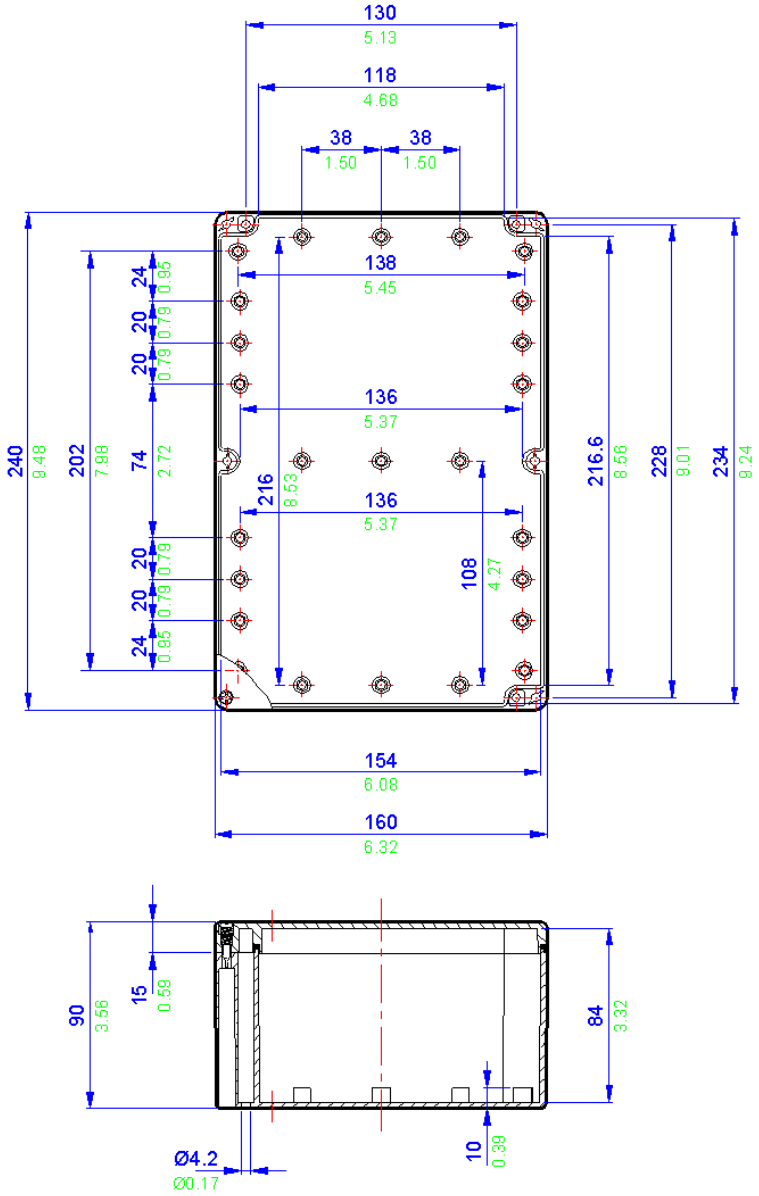
Gland Entry Matrix *

Size	Side A - C	Side B - D
M16	12	6
M20	4	2
M25	4	2
M32	2	2
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP14	Polycarbonate (RAL7035)	240	160	90	645
ZP14 ABS	ABS (RAL7035)	240	160	90	575



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

ZP15 / ZP15 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	6
BK6 (6 way)	4
BK12 (12 way)	2
MK 6/4	4
MK 6/6	3
SAK 2.5	36
SAK 4	36
SAK 6N	27
SAK 10	21
SAK 16	18
SAK 35	12

Entrelec	
MA2.5/5	43
M4/6	36
M6/8	27
M10/10	21
M16/12	18
M35/16	13

Phoenix	
G5\4 (4 way)	6
G5\6 (6 way)	4
G5\12 (12 way)	2
UK3 N	42
UK5 N	42
UK10 N	21
UK16 N	17
UK35 N	14

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	104	116
Height	65 (x2)	65

Gland Entry Matrix *

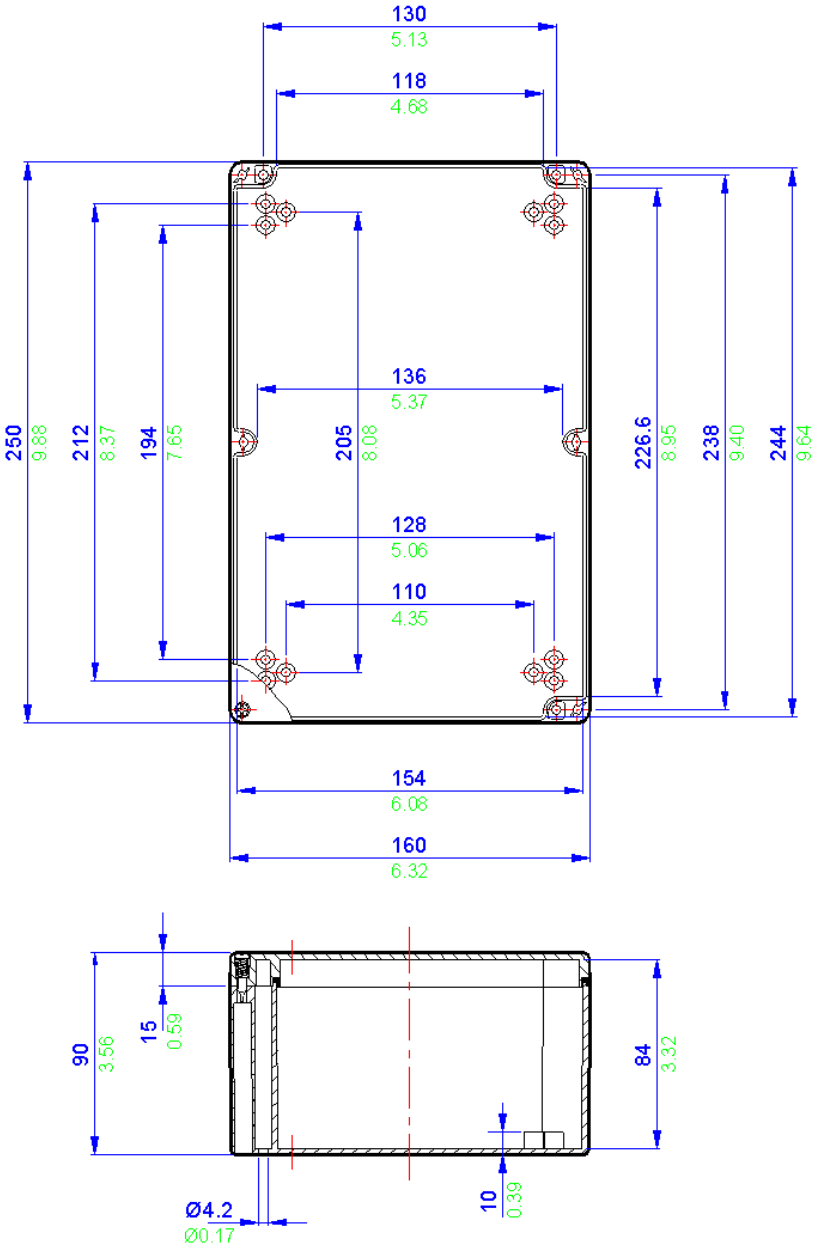
Size	Side A - C	Side B - D
M16	12	6
M20	4	2
M25	4	2
M32	2	2
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP15	Polycarbonate (RAL7035)	250	160	90	550
ZP15 ABS	ABS (RAL7035)	250	160	90	495

Technical Drawing



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

ZP16 / ZP16 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

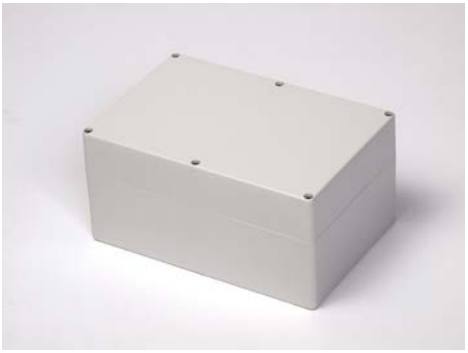
Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable



Terminal Populations (Maximum Number of Rails = 2)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	6
BK6 (6 way)	4
BK12 (12 way)	2
MK 6/4	4
MK 6/6	3
SAK 2.5	34
SAK 4	34
SAK 6N	25
SAK 10	20
SAK 16	17
SAK 35	11

Entrelec	
MA2.5/5	41
M4/6	34
M6/8	25
M10/10	20
M16/12	17
M35/16	12

Phoenix	
G5\4 (4 way)	6
G5\6 (6 way)	4
G5\12 (12 way)	2
UK3 N	39
UK5 N	33
UK10 N	20
UK16 N	16
UK35 N	13

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	100	106
Height	64 (x2)	64

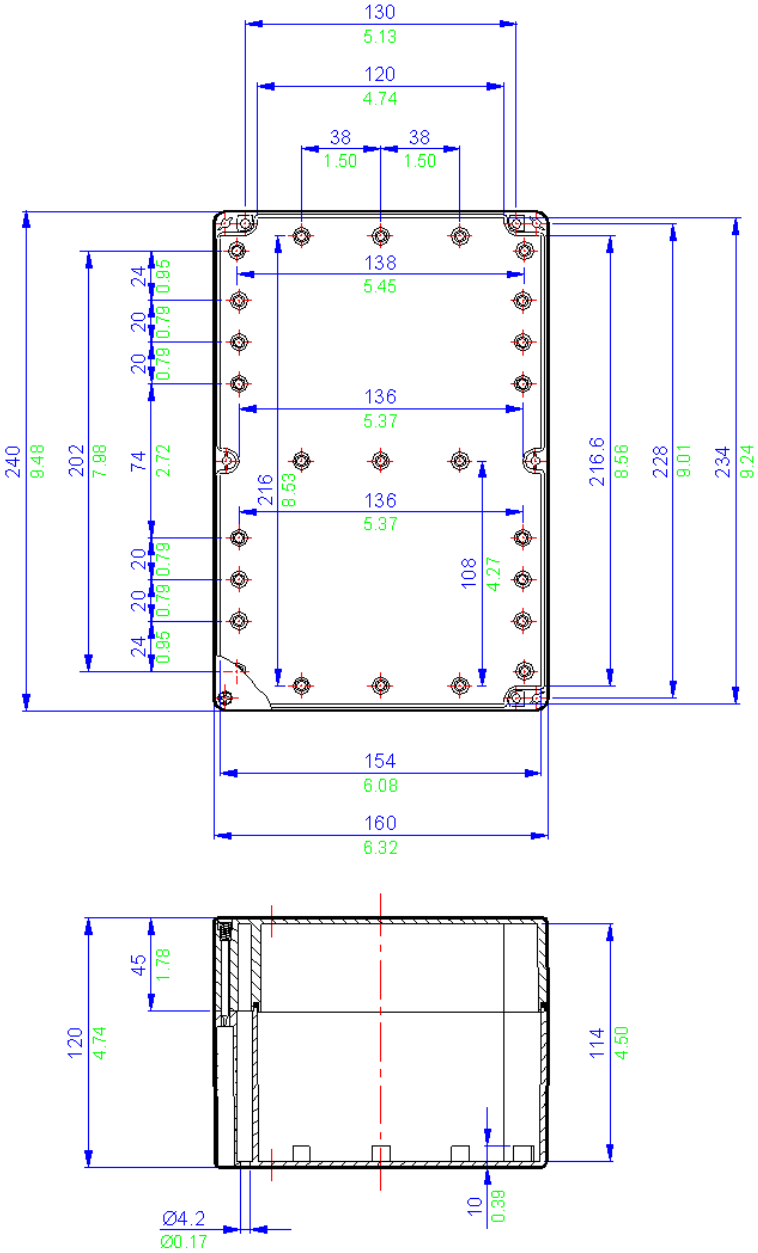
Gland Entry Matrix *

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

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP16	Polycarbonate (RAL7035)	240	160	120	805
ZP16 ABS	ABS (RAL7035)	240	160	120	720



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

ZP17 / ZP17 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	10
BK6 (6 way)	6
BK12 (12 way)	4
MK 6/4	6
MK 6/6	4
SAK 2.5	56
SAK 4	56
SAK 6N	42
SAK 10	34
SAK 16	28
SAK 35	18

Entrelec	
MA2.5/5	68
M4/6	56
M6/8	42
M10/10	34
M16/12	28
M35/16	20

Phoenix	
G5\4 (4 way)	6
G5\6 (6 way)	4
G5\12 (12 way)	2
UK3 N	39
UK5 N	33
UK10 N	20
UK16 N	16
UK35 N	13

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	130	186
Height	44 (x2)	44

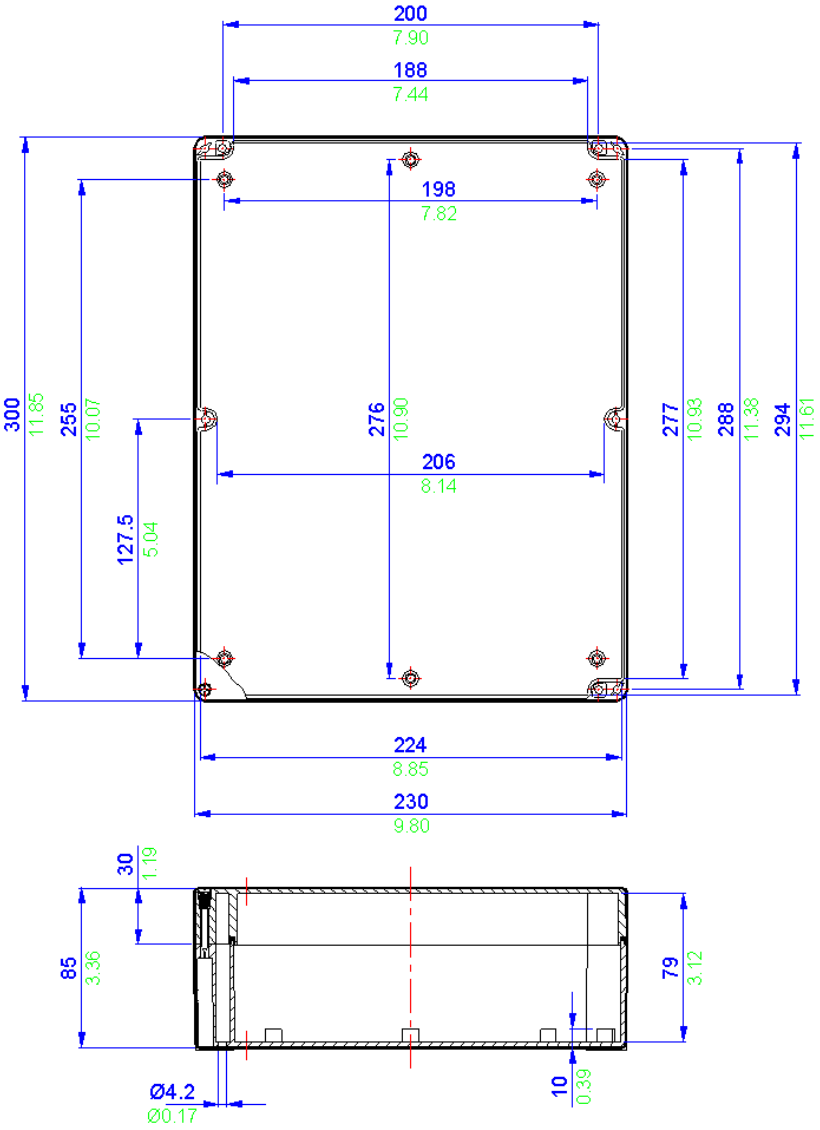
Gland Entry Matrix *

Size	Side A - C	Side B - D
M16	8	5
M20	6	4
M25	0	0
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP17	Polycarbonate (RAL7035)	300	230	85	930
ZP17 ABS	ABS (RAL7035)	300	230	85	875



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

ZP18 / ZP18 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	18
BK6 (6 way)	12
BK12 (12 way)	6
MK 6/4	14
MK 6/6	8
SAK 2.5	110
SAK 4	110
SAK 6N	82
SAK 10	66
SAK 16	54
SAK 35	36

Entrelec	
MA2.5/5	132
M4/6	110
M6/8	82
M10/10	66
M16/12	54
M35/16	36

Phoenix	
G5\4 (4 way)	18
G5\6 (6 way)	12
G5\12 (12 way)	6
UK3 N	126
UK5 N	106
UK10 N	64
UK16 N	54
UK35 N	42

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	150	136
Height	85 (x2)	85

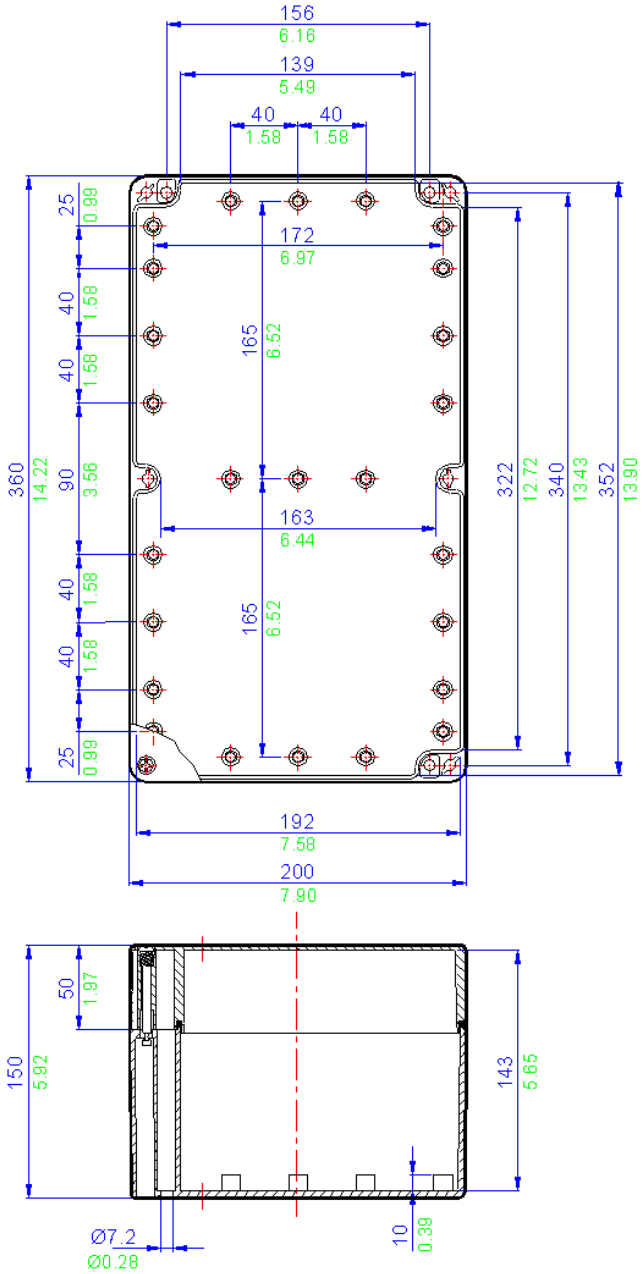
Gland Entry Matrix *

Size	Side A - C	Side B - D
M16	18	9
M20	12	6
M25	8	4
M32	4	2
M40	4	2

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP18	Polycarbonate (RAL7035)	360	200	150	1850
ZP18 ABS	ABS (RAL7035)	360	200	150	1625



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

ZP19 / ZP19 ABS ABS and Polycarbonate Enclosures IP65

Application
Industrial areas

Protection Degree
IP65

Certification
NEMA Types 1, 4X, 12
UL

Material
Moulded Polycarbonate - grey (RAL7035) or
Moulded ABS – grey (RAL7035)

Temperature Rating
Polycarbonate versions:
-40˚ to 120˚ C (-94˚ to 248˚ F)
ABS versions:
-40˚ to 65˚ C (-94˚ to 149˚ F)

Power Rating
Not Applicable

Terminal Populations (Maximum Number of Rails = 1)

Calculations do not include the use of end stops, end plates and separators. Check that the enclosure can accommodate the cable bending radius and that the earth stud and entry location will permit the required number of terminals to be fitted

Weidmuller	
BK4 (4 way)	10
BK6 (6 way)	6
BK12 (12 way)	4
MK 6/4	6
MK 6/6	4
SAK 2.5	56
SAK 4	56
SAK 6N	42
SAK 10	34
SAK 16	28
SAK 35	18

Entrelec	
MA2.5/5	68
M4/6	56
M6/8	42
M10/10	34
M16/12	28
M35/16	20

Phoenix	
G5\4 (4 way)	10
G5\6 (6 way)	6
G5\12 (12 way)	4
UK3 N	64
UK5 N	54
UK10 N	32
UK16 N	28
UK35 N	22

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	130	186
Height	44 (x2)	44

Gland Entry Matrix *

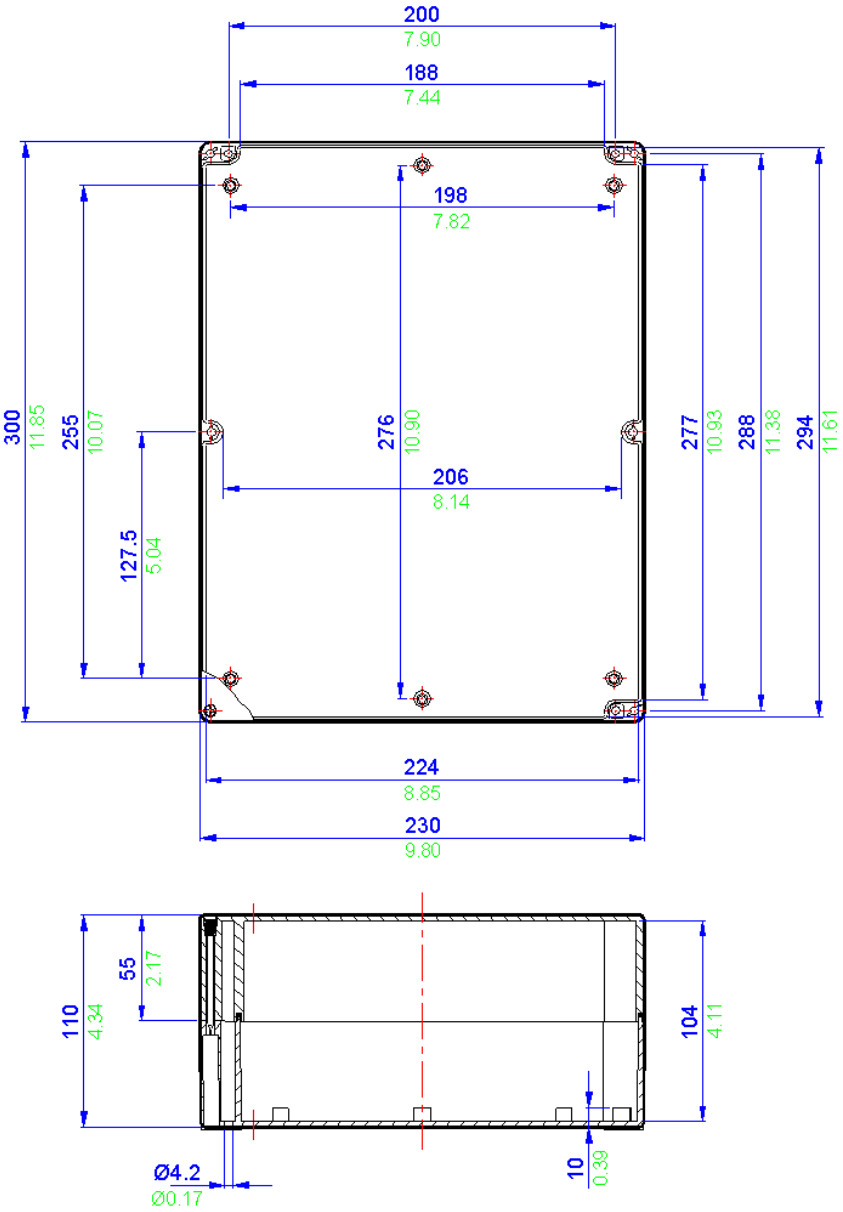
Size	Side A - C	Side B - D
M16	8	5
M20	6	4
M25	0	0
M32	0	0
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
ZP19	Polycarbonate (RAL7035)	300	230	110	1250
ZP19 ABS	ABS (RAL7035)	300	230	110	1025

Technical Drawing



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