# Control stations and enclosures
## Control station enclosures: insulated, metal and flush mounting

## Characteristics

### Insulated enclosures XAP A

| | | | |
|---|---|---|---|
| **Material and colour** | | | Glass-reinforced polyester, coloured grey throughout |
| **Product certifications** | Special version | | CSA ENCLOSURE 4 and 5 |
| **Protective treatment** | Standard version | | "TC" and "TH" |
| **Ambient air temperature** | For operation | **°C** | - 25…+ 70 |
| | For storage | **°C** | - 40…+ 70 |
| **Degree of protection** | Conforming to IEC 529 | | IP 65 |
| | Conforming to NF C 20-010 | | IP 657 |
| **Electric shock protection** | Conforming to IEC 536 and NF C 20-030 | | Class II |
| **Flame resistance** | | | CSTB: M3, NF C 20-455: 850 °C, IEC 92: 960 °C, UL 94: VO |
| **Resistance to chemical agents** | | | Highly resistant to acids, bases, sea water, mineral salts, all solvents, petrol, diesel, oils and greases |
| **Cable entries** | | | Undrilled |

### Elbowed metal enclosures XAM W

| | | | |
|---|---|---|---|
| **Material and colour** | | | Aluminium alloy<br>**XAM WD**: dark grey RAL 7016 lid, light grey RAL 7035 base<br>**XAM WK01**: yellow RAL 1012 lid, light grey RAL 7035 base |
| **Conformity to standards** | | | IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60947-5-4 |
| **Protective treatment** | Standard version | | "TC" and "TH" |
| **Ambient air temperature** | For operation | **°C** | - 25…+ 70 |
| | For storage | **°C** | - 40…+ 70 |
| **Degree of protection** | Conforming to IEC 529 | | IP 65 |
| **Electric shock protection** | Conforming to IEC 536 | | Class I |
| **Flame resistance** | | | CSTB: M3, NF C 20-455: 850 °C, IEC 92: 960 °C, UL 94: VO |
| **Resistance to chemical agents** | | | Good resistance to organic acids, diluted mineral acids, salts, alcohol, acetone, chloride and fluoride solvents, oils and petrol |
| **Cable entries** | | | Via opening in rear of enclosure |

### Die-cast metal enclosures XAP M

| | | | |
|---|---|---|---|
| **Material and colour** | | | **XAP M1, M2, M3 and M4**: zinc alloy. Blue paint finish<br>**XAP M5**: aluminium alloy. Blue paint finish |
| **Product certifications** | Special version | | CSA ENCLOSURE 4 and 5, UL ENCLOSURE 1, 3, 4 and 12K |
| **Protective treatment** | Standard version | | "TC" |
| | Special version | | "TH" |
| **Ambient air temperature** | For operation | **°C** | - 25…+ 70 |
| | For storage | **°C** | - 40…+ 70 |
| **Degree of protection** | Conforming to IEC 529 | | IP 65 |
| | Conforming to NF C 20-010 | | IP 657 |
| **Electric shock protection** | Conforming to IEC 536 and NF C 20-030 | | Class I |
| **Resistance to chemical agents** | | | Special treatments on request |
| **Cable entries** | | | Tapped entries for cable gland (see dimensions, page 35050/7) |

References:
pages 35050/4 to 35050/6

Dimensions:
pages 35050/7 to 35050/9

## Characteristics

### Metal enclosures XB2 S

| | | | |
|---|---|---|---|
| **Material and colour** | | | Aluminium alloy or sheet steel. Blue paint finish |
| **Protective treatment** | Standard version | | "TC" |
| | Special version | | "TH" |
| **Ambient air temperature** | For operation | **°C** | - 25…+ 70 |
| | For storage | **°C** | - 40…+ 70 |
| **Degree of protection** | Conforming to IEC 529 | | IP 54 |
| | Conforming to NF C 20-010 | | IP 547 |
| **Electric shock protection** | Conforming to IEC 536 and NF C 20-030 | | Class I |
| **Resistance to chemical agents** | | | Special treatments on request |
| **Cable entries** | **XB2 S** in aluminium alloy | | Tapped entries for cable gland (see dimensions, page 35050/7) |
| | **XB2 S** in sheet steel | | Undrilled |

### Flush mounting enclosures XAP E

| | | | |
|---|---|---|---|
| **Material and colour** | | | Anodised aluminium front plate. Insulated protective rear cover |
| **Protective treatment** | Standard version | | "TC" and "TH" |
| **Ambient air temperature** | For operation | **°C** | - 25…+ 70 |
| | For storage | **°C** | - 40…+ 70 |
| **Degree of protection** | Conforming to IEC 529 | | IP 65 |
| | Conforming to NF C 20-010 | | IP 657 |
| **Electric shock protection** | Conforming to IEC 536 and NF C 20-030 | | Class I |
| **Resistance to chemical agents** | | | Good resistance to organic acids, diluted mineral acids, salts, alcohol, acetone, chloride and fluoride solvents, oils and petrol |
| **Cable entries** | | | Through rear cover: knock-out cable entries |

References:
pages 35050/4 to 35050/6

Dimensions:
pages 35050/7 to 35050/9

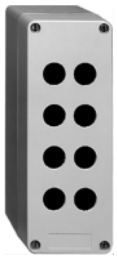
# Control stations and enclosures

## Control station enclosures: insulated, metal and flush mounting

### With cut-outs for Ø 22 control and signalling units



*XAP A1104*



*XAP A2108*



*XAP A3116*

## References

**Insulated enclosures, glass-reinforced polyester** (usable depth 83 mm)

| Description | Front face dimensions mm | Number of cut-outs | Number of rows | | Reference | Weight kg |
|---|---|---|---|---|---|---|
| | | | Vertical | Horizontal | | |
| **Without hinges** | 85 x 146 | 1 | 1 | 1 | **XAP A1110** | 0.470 |
| | | 2 | 1 | 2 | **XAP A1120** | 0.450 |
| | | 4 | 2 | 2 | **XAP A1104** | 0.460 |
| | 85 x 226 | 8 | 2 | 4 | **XAP A2108** | 0.580 |
| | 151 x 241 | 16 | 4 | 4 | **XAP A3116** | 0.820 |
| **With hinges** | 151 x 241 | 16 | 4 | 4 | **XAP A4116** | 0.850 |
| **Earthing plates** sheet steel with earth screw | | For XAP A1110 | | | **XAP Z110** | 0.080 |
| | | For XAP A1120 | | | **XAP Z120** | 0.070 |
| | | For XAP A1104 | | | **XAP Z104** | 0.070 |
| | | For XAP A2108 | | | **XAP Z208** | 0.110 |
| | | For XAP A3116 and A4116 | | | **XAP Z316** | 0.160 |



*XAM WD03*



*XAM WK01*

**Elbowed metal enclosures for mounting on vertical support**

| Description | Colour | Number of cut-outs | Reference | Weight kg |
|---|---|---|---|---|
| **Elbowed enclosures** metal | Dark grey lid (RAL 7016) Light grey base (RAL 7035) | 1 | **XAM WD01** | 0.465 |
| | | 2 | **XAM WD02** | 0.545 |
| | | 3 | **XAM WD03** | 0.725 |
| | | 4 | **XAM WD04** | 0.725 |
| | | 5 | **XAM WD05** | 0.790 |
| | | 6 | **XAM WD06** | 0.990 |
| | | 7 | **XAM WD07** | 0.990 |
| | Yellow lid (RAL 1012) Light grey base (RAL 7035) | 1 | **XAM WK01** | 0.465 |

**Other versions**

Insulated and metal control station enclosures with cut-outs for Ø 30 control and signalling units.
Protective guards and fixing lugs for die-cast metal enclosures.
Insulated and metal control station enclosures pre-fitted with Ø 22 units.
Adjustable floor mounting pedestal (790 mm to 1143 mm) for sheet steel enclosures.
Please consult your Regional Sales Office.

Characteristics: pages 35050/2 and 35050/3
Dimensions: pages 35050/7 to 35050/9

# Control stations and enclosures

## Control station enclosures: insulated, metal and flush mounting

### With cut-outs for Ø 22 control and signalling units



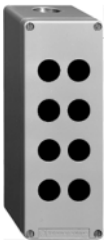
*XAP M1202*



*XAP M2203*



*XAP M2504*



*XAP M4508*



*XB2 SL42009*



*XB2 SL64007*

## References

| Description | Front face dimensions mm | Number of cut-outs | Number of rows Vertical | Number of rows Horizontal | Reference | Weight kg |
|---|---|---|---|---|---|---|
| **Die-cast metal enclosures** (blue lid and base) | | | | | | |
| **Zinc alloy** Usable depth 49 mm | 80 x 80 | 1 | 1 | 1 | **XAP M1201** | 0.455 |
| | | 2 | 2 | 1 | **XAP M1202** | 0.450 |
| | 80 x 130 | 2 | 1 | 2 | **XAP M2202** | 0.610 |
| | | 3 | 1 | 3 | **XAP M2203** | 0.605 |
| | | 4 | 2 | 2 | **XAP M2204** | 0.600 |
| | 80 x 175 | 3 | 1 | 3 | **XAP M3203** | 0.870 |
| | | 4 | 1 | 4 | **XAP M3204** | 0.880 |
| | | 6 | 2 | 3 | **XAP M3206** | 0.870 |
| **Zinc alloy** Usable depth 74.5 mm | 80 x 80 | 1 | 1 | 1 | **XAP M1501** | 0.605 |
| | | 2 | 2 | 1 | **XAP M1502** | 0.600 |
| | 80 x 130 | 2 | 1 | 2 | **XAP M2502** | 0.810 |
| | | 3 | 1 | 3 | **XAP M2503** | 0.815 |
| | | 4 | 2 | 2 | **XAP M2504** | 0.810 |
| | 80 x 175 | 3 | 1 | 3 | **XAP M3503** | 1.145 |
| | | 4 | 1 | 4 | **XAP M3504** | 1.140 |
| | | 6 | 2 | 3 | **XAP M3506** | 1.130 |
| | 80 x 220 | 6 | 1 | 6 | **XAP M4506** | 1.380 |
| | | 8 | 2 | 4 | **XAP M4508** | 1.370 |
| **Aluminium** Usable depth 74.5 mm | 85 x 310 | 8 | 1 | 8 | **XAP M5508** | 0.810 |
| | | 12 | 2 | 6 | **XAP M5512** | 0.790 |
| **Aluminium** Usable depth 78 mm | 150 x 150 | 6 | 3 | 2 | **XB2 SL32009** | 0.970 |
| | | 8 | 4 | 2 | **XB2 SL42009** | 0.960 |
| **Die-cast metal enclosures** (yellow lid, blue base) | | | | | | |
| **Zinc alloy** Usable depth 49 mm | 80 x 80 | 1 | 1 | 1 | **XAP J1201** | 0.455 |
| **Zinc alloy** Usable depth 74.5 mm | 80 x 80 | 1 | 1 | 1 | **XAP J1501** | 0.605 |
| **Sheet steel enclosures** | | | | | | |
| Usable depth 115 mm | 200 x 200 | 8 | 4 | 2 | **XB2 SL42007** | 3.100 |
| | 200 x 260 | 16 | 4 | 4 | **XB2 SL44007** | 3.900 |
| | 260 x 260 | 24 | 6 | 4 | **XB2 SL64007** | 4.700 |
| | 260 x 320 | 30 | 6 | 5 | **XB2 SL65007** | 5.500 |
| | 320 x 320 | 40 | 8 | 5 | **XB2 SL85007** | 6.200 |

**Other versions**

Insulated and metal control station enclosures with cut-outs for Ø 30 control and signalling units.
Protective guards and fixing lugs for die-cast metal enclosures.
Insulated and metal control station enclosures pre-fitted with Ø 30 units.
Adjustable floor mounting pedestal (790 mm to 1143 mm) for sheet steel enclosures.
Please consult your Regional Sales Office.

Characteristics: pages 35050/2 and 35050/3
Dimensions: pages 35050/7 to 35050/9

# Control stations and enclosures

## Control station enclosures: insulated, metal and flush mounting

### Undrilled or with cut-outs for Ø 22 control and signalling units




*XAP A1100* *XAP A2100*



*XAP A3100*



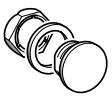

*XAP M11* *XAP M31*




*XAP E301* *XAP E302*




*XAP E303* *XAP E305*




*ZB2 SZ2* *ZB2 SZ3 ZB2 SZ4*

## References

### Insulated enclosures, undrilled

| Description | | Front face dimensions (mm) | Reference | Weight kg |
|---|---|---|---|---|
| Usable depth 83 mm | Without hinges | 85 x 146 | **XAP A1100** | 0.470 |
| | | 85 x 226 | **XAP A2100** | 0.600 |
| | | 151 x 241 | **XAP A3100** | 0.860 |
| | With hinges | 151 x 241 | **XAP A4100** | 0.890 |
| **Earthing plates** with earth screw | For XAP A1100 | – | **XAP Z100** | 0.080 |
| | For XAP A2100 | – | **XAP Z200** | 0.130 |
| | For XAP A3100 and A4100 | – | **XAP Z300** | 0.200 |

### Die-cast metal enclosures, undrilled

| Description | Material | Front face dimensions (mm) | Reference | Weight kg |
|---|---|---|---|---|
| **Blue lid and base** | Zinc alloy Usable depth 49 mm | 80 x 80 | **XAP M11** | 0.460 |
| | | 80 x 130 | **XAP M21** | 0.620 |
| | | 80 x 175 | **XAP M31** | 0.900 |
| | Zinc alloy Usable depth 74.5 mm | 80 x 80 | **XAP M14** | 0.610 |
| | | 80 x 130 | **XAP M24** | 0.830 |
| | | 80 x 175 | **XAP M34** | 1.160 |
| | | 80 x 220 | **XAP M44** | 1.410 |
| | Aluminium Usable depth 74.5 mm | 85 x 310 | **XAP M54** | 0.850 |
| | Aluminium Usable depth 78 mm | 150 x 150 | **XB2 SA220095** | 0.970 |
| **Yellow lid, blue base** | Zinc alloy Usable depth 49 mm | 80 x 80 | **XAP J11** | 0.460 |
| | Zinc alloy Usable depth 74.5 mm | 80 x 80 | **XAP J14** | 0.610 |
| | | 80 x 175 | **XAP J34** | 1.160 |

### Flush mounting enclosures for Ø 22 control and signalling units

| Description | Material | Number of cut-outs | Front face dimensions (mm) | Reference | Weight kg |
|---|---|---|---|---|---|
| **Front plates** with fixing screws | Aluminium, anodised | 1 | 72 x 72 | **XAP E301** | 0.050 |
| | | 2 | 72 x 105 | **XAP E302** | 0.075 |
| | | 3 | 72 x 138 | **XAP E303** | 0.095 |
| | | 4 | 72 x 171 | **XAP E304** | 0.115 |
| | | 5 | 72 x 204 | **XAP E305** | 0.135 |
| **Protective rear covers** | Insulated | For front plate XAP E301 | | **XAP E901** | 0.040 |
| | | For front plate XAP E302 | | **XAP E902** | 0.050 |
| | | For front plate XAP E303 | | **XAP E903** | 0.060 |
| | | For front plate XAP E304 | | **XAP E904** | 0.070 |
| | | For front plate XAP E305 | | **XAP E905** | 0.080 |

### Separate components

| Description | | Colour | Unit reference | Weight kg |
|---|---|---|---|---|
| **Blanking plugs** with seal and fixing nut for cut-outs Ø $22.3^{+0.4}_{0}$ mm | Insulated | Black | **ZB2 SZ3** | 0.005 |
| | | Grey | **ZB2 SZ4** | 0.005 |
| | Metal | Blue | **ZB2 SZ2** | 0.020 |
| **Seal** (IP 65 degree of protection) (sold in lots of 7) | For mounting Ø 22 control and signalling units in XAM W● enclosures | | **ZB2 BZ004** | 0.001 |

**Other versions**

Protective guards and fixing lugs for metal enclosures.
Flush mounting enclosures, undrilled or with Ø 30 cut-outs.
Flush mounting enclosures pre-fitted with Ø 22 units.
Please consult your Regional Sales Office.

Characteristics: pages 35050/2 and 35050/3
Dimensions: pages 35050/7 and 35050/9

# Control stations and enclosures

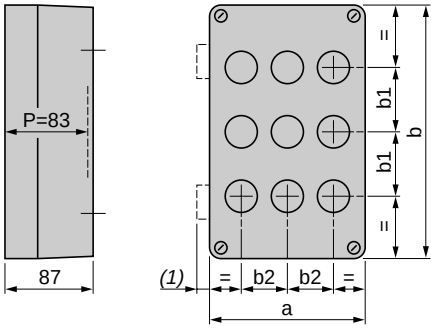
## Control station enclosures: insulated, metal and flush mounting

With cut-outs for Ø 22 control and signalling units

## Dimensions

### Insulated enclosures with cut-outs

#### XAP A




| XAP | a | b | b1 | b2 | G | H |
|---|---|---|---|---|---|---|
| **A1110** | 85 | 146 | – | – | 70 | 105 |
| **A1120** | 85 | 146 | 40 | – | 70 | 105 |
| **A1104** | 85 | 146 | 40 | 30 | 70 | 105 |
| **A2108** | 85 | 226 | 40 | 30 | 70 | 180 |
| **A3116, A4116** | 151 | 241 | 40 | 30 | 135 | 200 |

Drill cable entries to suit.

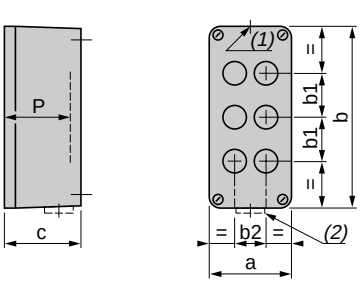
*(1) 11 mm for XAP A4●●● enclosures with hinges.*

*(2) 2 x Ø 5.6 holes, depth 12.*

P = Usable depth

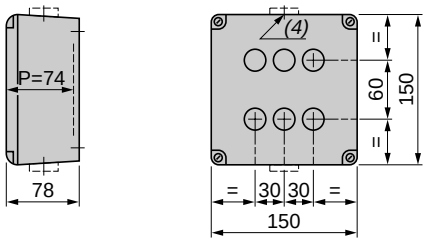
### Die-cast metal enclosures with cut-outs

#### XAP J, XAP M

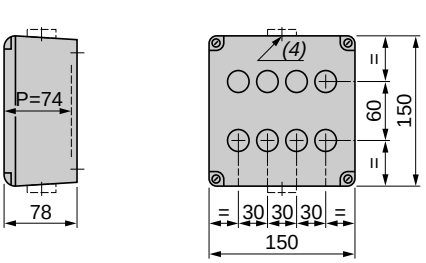



| XAP | a | b | b1 | b2 | c | G | H | P |
|---|---|---|---|---|---|---|---|---|
| **J1201** | 80 | 80 | – | – | 51.5 | 50 | 65 | 49 |
| **J1501** | 80 | 80 | – | – | 77 | 50 | 65 | 74.5 |
| **M1201, M1202** | 80 | 80 | – | – | 51.5 | 50 | 65 | 49 |
| **M1501** | 80 | 80 | – | – | 77 | 50 | 65 | 74.5 |
| **M1502** | 80 | 80 | – | 30 | 77 | 50 | 65 | 74.5 |
| **M2202** | 80 | 130 | 40 | – | 51.5 | 50 | 115 | 49 |
| **M2203** | 80 | 130 | 30 | – | 51.5 | 50 | 115 | 49 |
| **M2204** | 80 | 130 | 40 | 30 | 51.5 | 50 | 115 | 49 |
| **M2502** | 80 | 130 | 40 | – | 77 | 50 | 115 | 74.5 |
| **M2503** | 80 | 130 | 30 | – | 77 | 50 | 115 | 74.5 |
| **M2504** | 80 | 130 | 40 | 30 | 77 | 50 | 115 | 74.5 |
| **M3203** | 80 | 175 | 40 | – | 51.5 | 50 | 160 | 49 |
| **M3204** | 80 | 175 | 30 | – | 51.5 | 50 | 160 | 49 |
| **M3206** | 80 | 175 | 40 | 30 | 51.5 | 50 | 160 | 49 |
| **M3503** | 80 | 175 | 40 | – | 77 | 50 | 160 | 74.5 |
| **M3504** | 80 | 175 | 30 | – | 77 | 50 | 160 | 74.5 |
| **M3506** | 80 | 175 | 40 | 30 | 77 | 50 | 160 | 74.5 |
| **M4506** | 80 | 220 | 30 | – | 77 | 50 | 205 | 74.5 |
| **M4508** | 80 | 220 | 40 | 30 | 77 | 50 | 205 | 74.5 |
| **M5508** | 85 | 310 | 30 | – | 77 | 55 | 295 | 74.5 |
| **M5512** | 85 | 310 | 40 | 30 | 77 | 55 | 295 | 74.5 |

#### XB2 SL32009




#### XB2 SL42009




*(1) 1 hole, without blanking plug, for cable gland with 14 mm maximum clamping capacity, except:*
- *XAP M3●●● and XAP M4●●●: maximum capacity 18 mm,*
- *XAP M5●●●: maximum capacity 24 mm.*

*(2) 1 hole, with blanking plug (protrusion 6 mm), for cable gland with 14 mm maximum clamping capacity, except:*
- *XAP M3●●●: maximum capacity 18 mm,*
- *XAP M4●●● and XAP M5●●●: undrilled.*

*(3) 2 x Ø 5.6 holes, depth 20.*

*(4) 2 holes, with blanking plugs (protrusion 7.5 mm), for cable glands with 12 mm maximum clamping capacity.*

P = Usable depth

Characteristics:
pages 35050/2 and 3505/3

References:
pages 35050/4 to 35050/6

# Control stations and enclosures

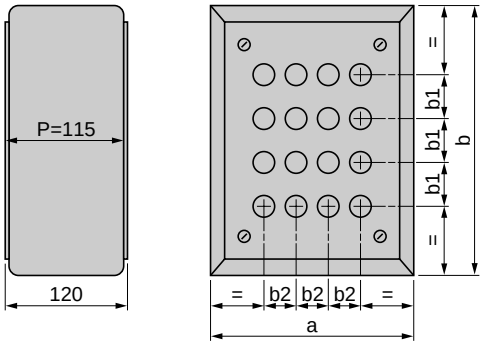
## Control station enclosures: insulated, metal and flush mounting

Undrilled or with cut-outs for Ø 22 control and signalling units

## Dimensions

### Sheet steel enclosures

#### XB2 SL

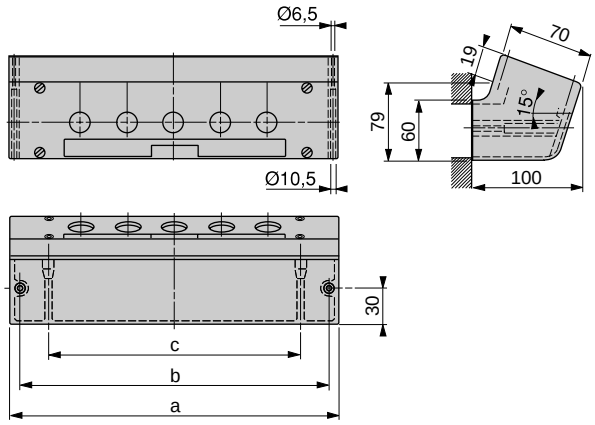



| XB2 | a | b | b1 | b2 |
|---|---|---|---|---|
| **SL42007** | 200 | 200 | 40 | 30 |
| **SL44007** | 200 | 260 | 40 | 30 |
| **SL64007** | 260 | 260 | 40 | 30 |
| **SL65007** | 260 | 320 | 40 | 30 |
| **SL85007** | 320 | 320 | 40 | 30 |

Enclosures supplied without fixing points or cable entries. In both cases drill to suit.
The depth of the enclosures enables all types of Ø 22 units to be mounted.
P = Usable depth

### Elbowed enclosures

#### XAM W●

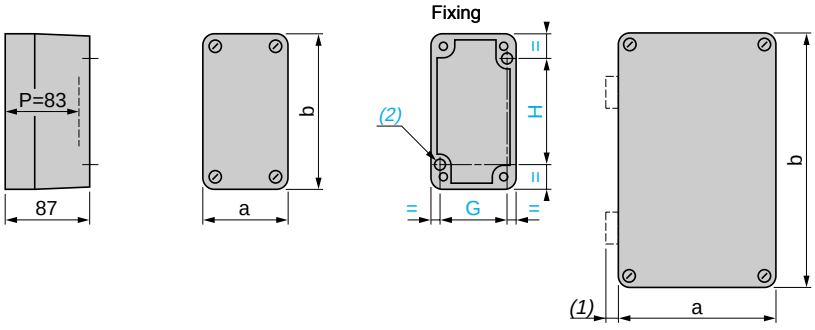



| | a | b | c |
|---|---|---|---|
| **XAM WD01** | 90 | 74 | 50 |
| **XAM WD02** | 135 | 119 | 95 |
| **XAM WD03** | 180 | 164 | 140 |
| **XAM WD04** | 180 | 164 | 140 |
| **XAM WD05** | 225 | 209 | 185 |
| **XAM WD06** | 290 | 274 | 230 |
| **XAM WD07** | 290 | 274 | 230 |
| **XAM WK01** | 90 | 74 | 50 |

### Insulated enclosures, undrilled

#### XAP A1100, XAP A2100

#### XAP A3100, XAP A4100




| XAP | a | b | G | H |
|---|---|---|---|---|
| **A1110** | 85 | 146 | 70 | 105 |
| **A2100** | 85 | 226 | 70 | 180 |
| **A3100** | 151 | 241 | 135 | 200 |
| **A4100** | 151 | 241 | 135 | 200 |

Drill cable entries to suit.

*(1) 11 mm for XAP A4●●● enclosures with hinges.*
*(2) 2 x Ø 5.6 holes, depth 12.*

P = Usable depth

Characteristics:
pages 35050/2 and 3505/3

References:
pages 35050/4 to 35050/6

# Control stations and enclosures

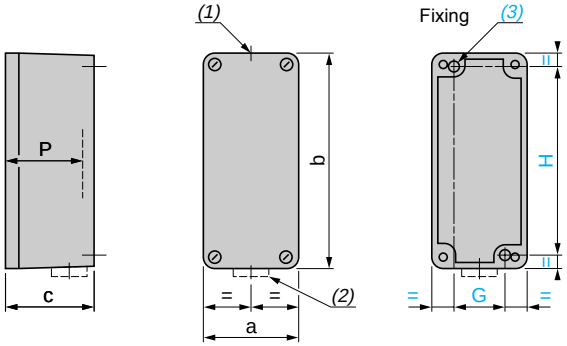
## Control station enclosures: insulated, metal and flush mounting

Undrilled or with cut-outs for Ø 22 control and signalling units

## Dimensions

### Die-cast metal enclosures, undrilled

#### XAP J●●, XAP M●●




| XAP | a | b | c | G | H | P |
|---|---|---|---|---|---|---|
| **J11** | 80 | 80 | 51.5 | 50 | 65 | 49 |
| **J14** | 80 | 80 | 77 | 50 | 65 | 74.5 |
| **J34** | 80 | 175 | 77 | 50 | 160 | 74.5 |
| **M11** | 80 | 80 | 51.5 | 50 | 65 | 49 |
| **M14** | 80 | 80 | 77 | 50 | 65 | 74.5 |
| **M21** | 80 | 130 | 51.5 | 50 | 115 | 49 |
| **M24** | 80 | 130 | 77 | 50 | 115 | 74.5 |
| **M31** | 80 | 175 | 51.5 | 50 | 160 | 49 |
| **M34** | 80 | 175 | 77 | 50 | 160 | 74.5 |
| **M44** | 80 | 220 | 77 | 50 | 205 | 74.5 |
| **M54** | 85 | 310 | 77 | 55 | 295 | 74.5 |

*(1) 1 hole, without blanking plug, for cable gland with 14 mm maximum clamping capacity, except:*
- *XAP J34, M31, M34 and M44: maximum capacity 18 mm,*
- *XAP M54: maximum capacity 24 mm.*

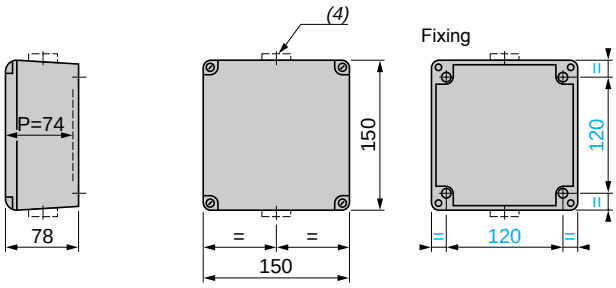
*(2) 1 hole, with blanking plug (protrusion 6 mm), for cable gland with 14 mm maximum clamping capacity, except:*
- *XAP J34, M31 and M34: maximum capacity 18 mm,*
- *XAP M44, M54: undrilled.*

*(3) 2 x Ø 5.6 holes, depth 20.*

*(4) 2 holes, with blanking plug (protrusion 7.5 mm), for cable glands with 12 mm maximum clamping capacity.*

P = Usable depth

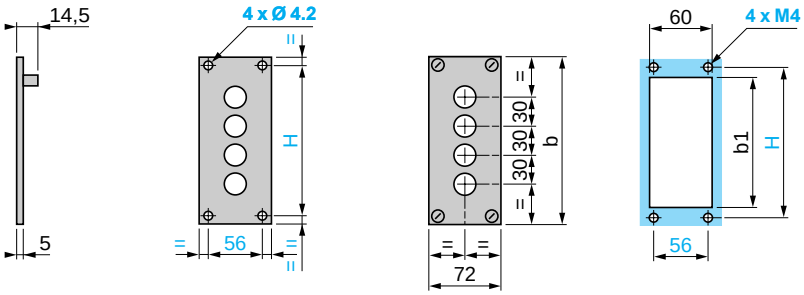
#### XB2 SA220095




### Flush mounting enclosures

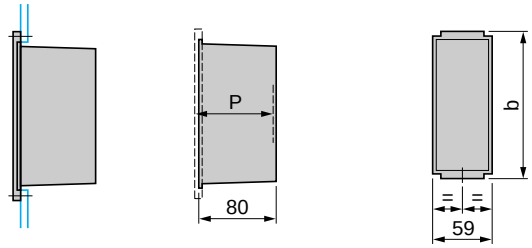
#### XAP E30●

Front plates with cut-outs for Ø 22 control and signalling units




| For Ø 22 control and signalling units | | | |
|---|---|---|---|
| **Front plate** | | | |
| **XAP** | b | b1 | H |
| **E301** | 72 | 44 | 56 |
| **E302** | 105 | 77 | 89 |
| **E303** | 138 | 110 | 122 |
| **E304** | 171 | 143 | 155 |
| **E305** | 204 | 176 | 188 |

Mounting of front plate and protective rear cover on support panel




| Protective rear cover for front plate XAP E30● | | |
|---|---|---|
| **XAP** | b | P |
| **E901** | 52 | 82.5 |
| **E902** | 85 | 82.5 |
| **E903** | 118 | 82.5 |
| **E904** | 151 | 82.5 |
| **E905** | 184 | 82.5 |

P = Usable depth

Characteristics:
pages 35050/2 and 3505/3

References:
pages 35050/4 to 35050/6