KATKO

KCS JUNCTION BOXES
& GENERAL PURPOSE ENCLOSURES

aps

KCS JUNCTION BOXES AND GENERAL PURPOSE ENCLOSURES

Discover Katko's KCS Junction Box / General Enclosure Range – durable, versatile, and made from environmentally sustainable materials.

Manufactured from either polycarbonate or ABS. With five sizes to choose from, these enclosures will accommodate a range of electrical components and configurations. These enclosures are a high quality European made design.

Applications:

| Junction boxes.
| Pushbutton, indicator light and selector switch enclosures.
| Motor starter enclosures.
| Enclosed load break switch enclosures.

Features:

| Available in Polycarbonate or ABS
| Polycarbonate types are offered with grey or transparent covers.
| Quick fixing quarter turn screws for stable & reliable sealing.
| IP ratings: IP66 (Polycarbonate) for indoor and outdoor applications, and IP65 (ABS) for indoor use.
| Polycarbonate grey lid enclosures: f1 tested: suitable for outdoor use with respect to exposure to ultraviolet light, water exposure and immersion in accordance with UL746C. Polycarbonate transparent lid enclosures f2 tested.
| ABS = Acrylonitrile Butadiene Styrene types, IP65 indoor use.
| Single packaging includes all necessary items for basic use (screws, cover & bottom).
| Multiple installation methods.
| Available with optional mounting plates and Din rail.

Certification and tested according to:

| IEC/EN 62208
| AS/NZS 61439.1
| AS/NZS 61439.4
| IEC/EN 61439.1
| IEC/EN 61439.4
| IEC/EN 60529
| IEC/EN 62262

**NEW
KCS Series**

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Features:

| Either Polycarbonate or ABS
| Polycarbonate types are offered with a grey or transparent cover.
| Quick fixing quarter turn screws for stable & reliable sealing.
| IP Class: IP66 (Polycarbonate) for indoor and outdoor applications, and IP65 (ABS) for indoor use.
| Mechanical Impact: IK06 to IK08 rated, refer type below.
| Temperature range: - 40°C to + 60°C. Can go up to + 80°C with some derating for the internal equipment, refer APS.
| Polycarbonate grey lid enclosures: f1 tested: suitable for outdoor use with respect to exposure to ultraviolet light, water exposure and immersion in accordance with UL746C. Polycarbonate transparent lid enclosures f2 tested.
| ABS = Acrylonitrile Butadiene Styrene types, IP65 indoor use.
| Single packaging includes all necessary items for basic use (screws, cover & bottom).
| Multiple installation methods.
| Rear hole knock outs, as well as top, bottom and side hole location marker dots
| Available with optional mounting plates and Din rail.

Ordering:

Description	Dimensions H x W x D (mm)	IP rating	Application location	IK Impact (-25°C)	IK Impact (+35°C)	Part Number
Polycarbonate Grey Box & Cover						
Polycarbonate, Grey	95 x 95 x 65	IP66	Outdoor	IK06	IK07	KCS996PC
Polycarbonate, Grey	135 x 95 x 70	IP66	Outdoor	IK06	IK07	KCS1397PC
Polycarbonate, Grey	135 x 135 x 75	IP66	Outdoor	IK06	IK07	KCS13137PC
Polycarbonate, Grey	190 x 135 x 90	IP66	Outdoor	IK06	IK07	KCS19139PC
Polycarbonate, Grey	270 x 190 x 100	IP66	Outdoor	IK08	IK08	KCS271910PC
Polycarbonate Grey Box & Transparent Cover						
Polycarbonate, Grey, Transparent cover	95 x 95 x 65	IP66	Outdoor	IK06	IK06	KCS996PCT
Polycarbonate, Grey, Transparent cover	135 x 95 x 70	IP66	Outdoor	IK06	IK06	KCS1397PCT
Polycarbonate, Grey, Transparent cover	135 x 135 x 75	IP66	Outdoor	IK06	IK06	KCS13137PCT
Polycarbonate, Grey, Transparent cover	190 x 135 x 90	IP66	Outdoor	IK06	IK06	KCS19139PCT
Polycarbonate, Grey, Transparent cover	270 x 190 x 100	IP66	Outdoor	IK07	IK07	KCS271910PCT
ABS Grey Box & Cover						
ABS, Grey	95 x 95 x 65	IP65	Indoor	IK06	IK07	KCS996ABS
ABS, Grey	135 x 95 x 70	IP65	Indoor	IK06	IK07	KCS1397ABS
ABS, Grey	135 x 135 x 75	IP65	Indoor	IK06	IK07	KCS13137ABS
ABS, Grey	190 x 135 x 90	IP65	Indoor	IK06	IK07	KCS19139ABS
ABS, Grey	270 x 190 x 100	IP65	Indoor	IK07	IK08	KCS271910ABS

Optional mounting plates and DIN rail

| KCS enclosures are not supplied with mounting plates or DIN rail as standard.
| KCS enclosures when used as Junction Boxes, may not need mounting plates or DIN rail, though it is required for terminal blocks or other equipment. Refer next page for mounting plates and DIN rail.

Installing APS-Katko load break switches and handles

| KCS enclosures are ideally suited for installation of Katko KU & RT series load break switches, using
| Black or Yellow-red LK series handles. In fact Katko KEM 80 A to 125 A encloses switches are already using KCS271910PC enclosures. Example; KEM enclosed switch "M4" sizes use a KCS271910PC.

Ordering example:

Enclosed Katko load break switch

| KCS271910PC — Enclosure, 270 x 190 x 100 mm
| KCS271910MTGPLATE — Mounting plate
| KCSDINRAIL175 — Din rail horizontal
| KU4125 — 125A, 4 pole load break switch
| LK11 — Black IP66 handle
| L300AD11VT — Steel shaft (cut to length)
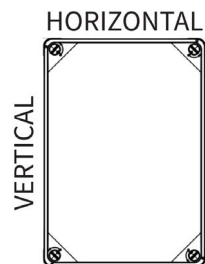
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Optional Items

Mounting plates for enclosures	Description	Dimensions H x W x D (mm)	Part Number
KCS996 enclosure	Anodised steel mounting plate	80 x 80 x 2 mm	KCS996MTGPLATE
KCS1397 enclosure	Anodised steel mounting plate	120 x 80 x 2 mm	KCS1397MTGPLATE
KCS13137 enclosure	Anodised steel mounting plate	120 x 120 x 2 mm	KCS13137MTGPLATE
KCS19139 enclosure	Anodised steel mounting plate	175 x 120 x 2 mm	KCS19139MTGPLATE
KCS271910 enclosure	Anodised steel mounting plate	250 x 170 x 2 mm	KCS271910MTGPLATE

Note, mounting plate installation screws are supplied with enclosures.

DIN Rail		
KCS DIN RAIL 83	KCS 996 Horizontal & Vertical, KCS 1397 Horizontal	KCSDINRAIL83
KCS DIN RAIL 122	KCS 1397 Vertical, KCS 13137 Horizontal & Vertical, KCS 19139 Horizontal	KCSDINRAIL122
KCS DIN RAIL 175	KCS 19139 Vertical, KCS 271910 Horizontal	KCSDINRAIL175
KCS DIN RAIL 255	KCS 271910 Vertical	KCSDINRAIL255

Horizontal (short), Vertical (long):
Standard steel DIN rail is available as horizontal or vertical for all sizes. Please refer to the table and reference layout to select the correct type. Mounting screws are always supplied with the enclosure.

KCS Replament Parts		
Replacement lid peg screws	Replacement quarter-turn screws, 4 pcs, Polycarbonate	KCSQTPCSET
Replacement lid peg screws	Replacement quarter-turn screws, 4 pcs, ABS	KCSQTABSSET

Katko KCS Switches are packaged in a cardboard partial box.

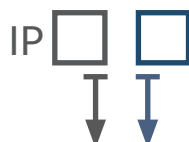# KATKO KCS JUNCTION BOXES AND GENERAL PURPOSE ENCLOSURES

ADDITIONAL TECHNICAL INFORMATION

Outdoor Suitability - UL 746C (Underwriters Laboratories, USA)
Materials considered suitable for outdoor use have been subjected to ultraviolet (UV) light exposure and/or water immersion, via a standardised UL testing process. Materials whose properties are not significantly degraded in any of these areas are considered to have passed and are suitable for outdoor use.

Rating	Description	Applicable KCS product
f1	The material has met both UV and water immersion requirements.	Poly boxes with a grey lid
f2	The material has met either UV or water immersion requirements or has only been partially tested.	Poly boxes with a transparent lid

GUIDE TO INGRESS PROTECTION

IP ☐ ☐

SOLID		
1	Protected against solid objects over 50mm (ex. a hand)	
2	Protected against solid objects over 12mm (ex. a finger)	
3	Protected against solid objects over 2.5mm (ex. a screwdriver)	
4	Protected against solid objects over I mm (ex. tools or wire)	
5	Protected against dust-limited ingress for 2-8 hours with no harmful deposit	
6	Complete protection against dust from enclosure	
IP69K Protected against dust ingress and high temperature, high pressure spray		
IP6K9K Completely protected against dust ingress and close range high temperature, high pressure spray		

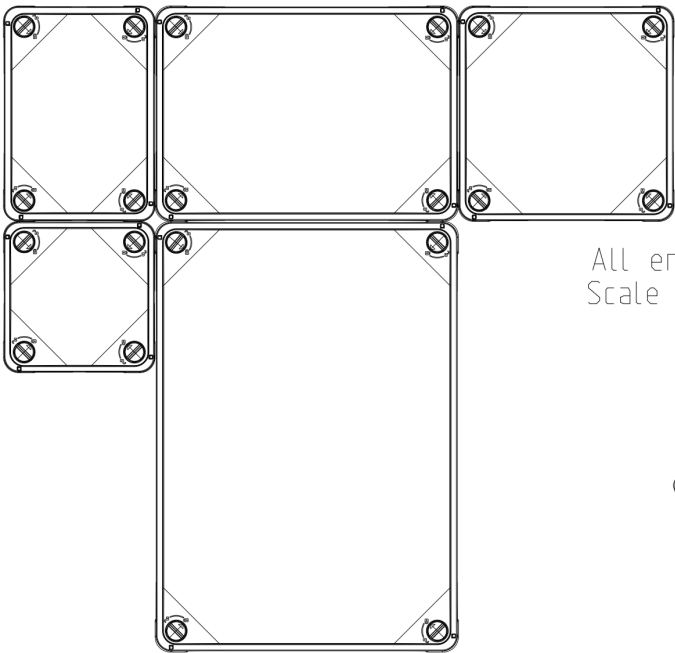| WATER		
1	Protected against vertically falling drops of water	
2	Protected from vertical drops of water when tilted at 15 °	
3	Protected from vertical water spray up to 60° (limit 3 minutes)	
4	Protected against splashes \ from all directions -limited ingress permitted	
5	Protected from water jets from all directions - causes no harmful effects	
6	Protected from powerful water jets from all directions - no harmful effects	
7	Water immersion protection between 15 cm and Im for up to 30 min	
8	Water immersion protection for long periods of time under pressure	
9K	Protection against close, high pressure and high temperature spray	

KATKO KCS JUNCTION BOXES AND GENERAL PURPOSE ENCLOSURES

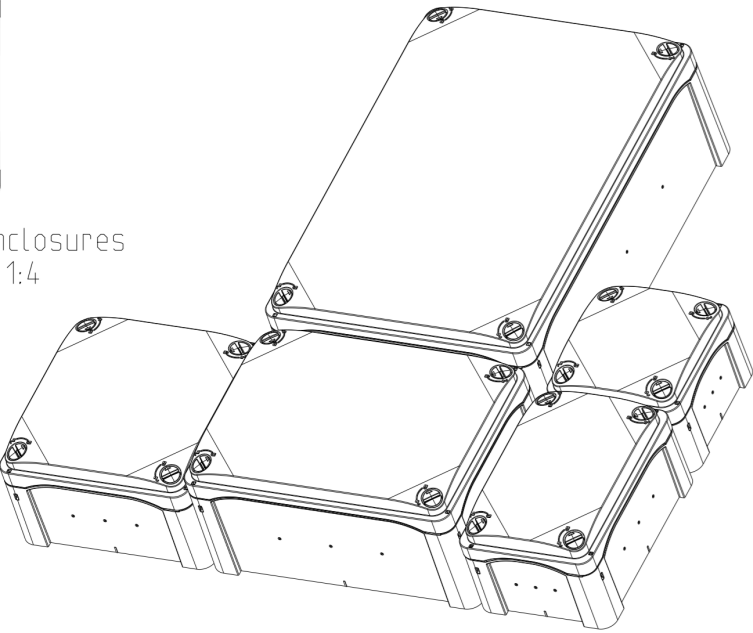## ADDITIONAL TECHNICAL INFORMATION

Usable depth, internal space, mounting plates and lid pegs

If a mounting plate is installed in an enclosure, deduct approximately 10mm from the outside depth dimension to determine the internal usable depth. More detail below. Dimensions are ± 1 mm.
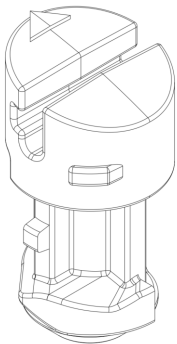
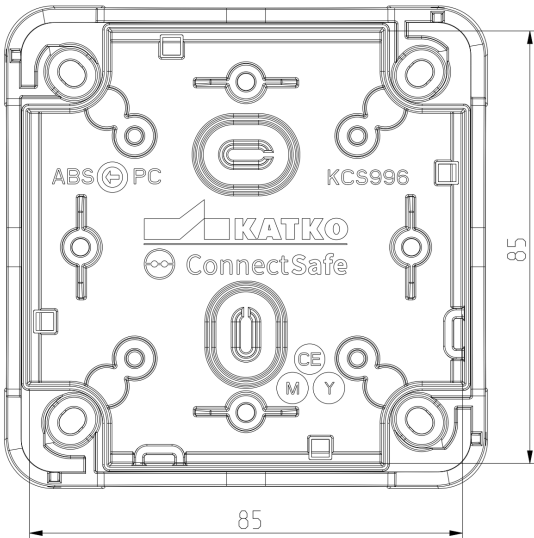| Enclosure type	External outside depth including lid	Internal depth no mounting plate	Internal depth WITH 2 mm mounting plate	Mounting Plate H x W x D	Internal space available Height x Width
KCS996 enclosure	65.5	53.0	51.0	80 x 80 x 2	85 x 85
KCS1397 enclosure	70.5	57.0	55.0	120 x 80 x 2	124 x 84
KCS13137 enclosure	75.5	62.0	60.0	120 x 120 x 2	124 x 124
KCS19139 enclosure	91.0	77.0	75.0	175 x 120 x 2	178 x 123
KCS271910 enclosure	100.0	86.0	84.0	250 x 170 x 2	256 x 176

All enclosures
Scale 1:4

Enclosure common dimensions and available internal space

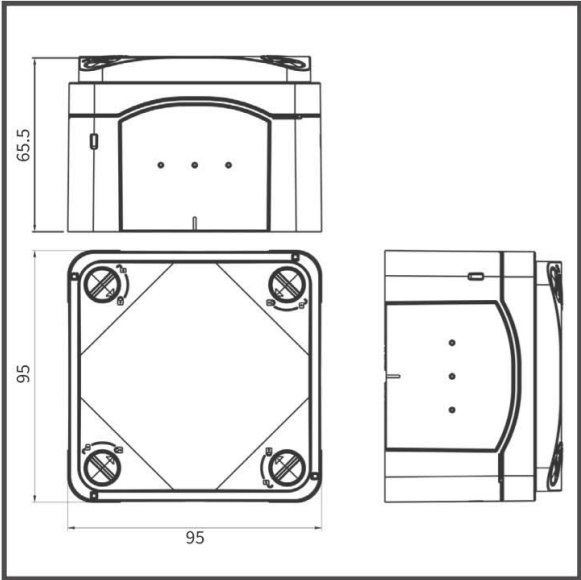There 4 x quarter turn, captive, lid fixing screw-pegs per enclosure

KCS996 enclosure internal view

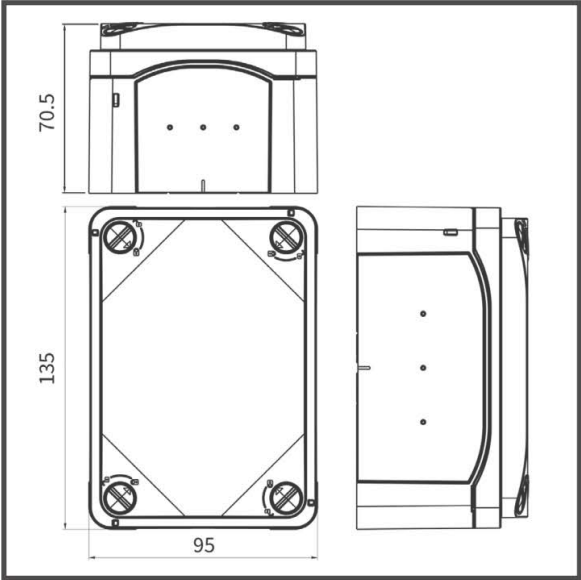# KATKO KCS JUNCTION BOXES AND GENERAL PURPOSE ENCLOSURES
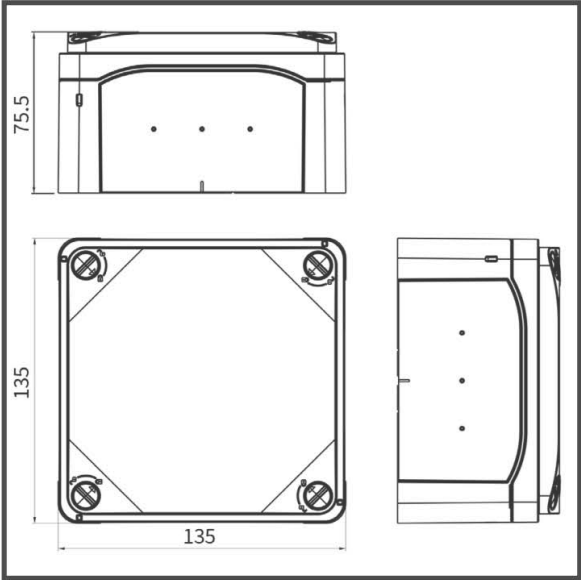

Dimensional Drawings

KCS1397

KCS13137

KCS19139

KCS271910

![aps logo]

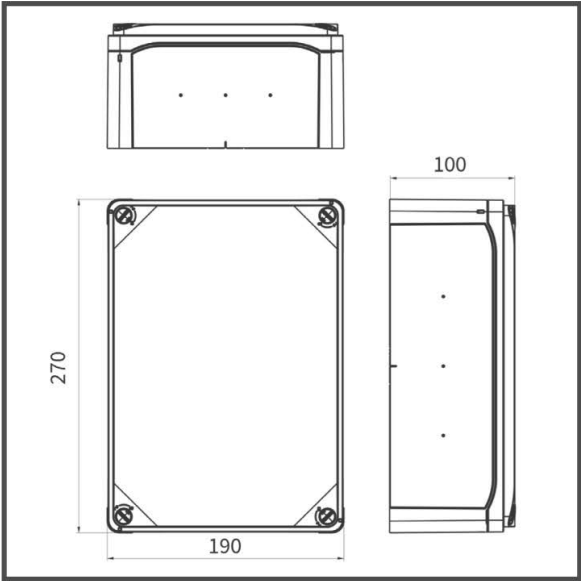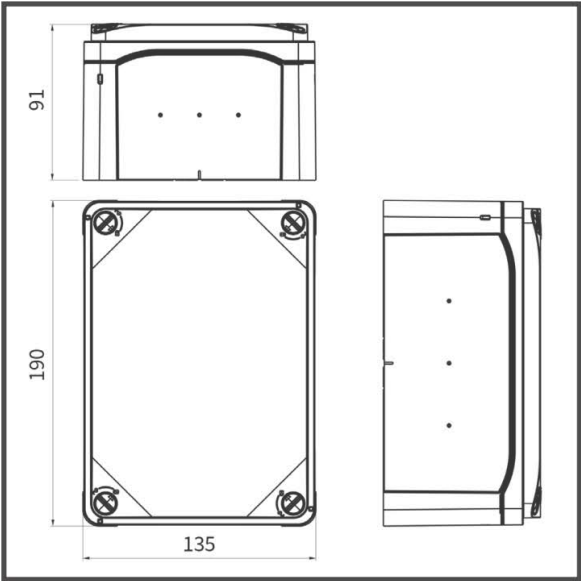## OUR LOCATIONS

National footprint with strategic local stockholdings.

APS Industrial is headquartered in Melbourne and in addition has a national network of offices in Adelaide, Perth, Sydney, Brisbane and Tasmania supported by strategic local stockholdings and expert technical and application knowledge.

apsindustrial.com.au

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