



**HAMMOND
MANUFACTURING®**



INDUSTRIAL ENCLOSURES
www.hammondmfg.com



Industrial Product Guide



Service Excellence

Our difference is industry leading service you can trust.

We know there are many enclosure supplier alternatives, but it's our service that makes Hammond different. We've committed our people and resources to ensuring you get exactly what you need, when you need it.

What Service Excellence Means for You:

In today's competitive business climate, the Hammond focus on service helps you where it counts most – on the bottom line.

- Superior fill rates means less inventory you need to keep on hand
- Quick, reliable delivery means fewer expedites and costly project delays
- Efficient phone support means less time waiting, more time doing what you do best

Quality Products

- Hammond understands that inconsistent quality can cost you valuable time and money – that's why quality is a priority for us.
- When enclosures protect very valuable equipment or are a key component to an OEM's finished product, compromising on enclosure quality is not a valid option.
- Our many years of experience developing and manufacturing enclosure solutions provides a confidence that Hammond will meet and exceed your quality expectations.



Hammond Manufacturing Distribution Centre



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IP68, Type 4, 4X Polycarbonate Pushbutton Enclosure 1554PB Series
1554 PB Series



Quick Link: hammfg.com/1554PB

Standards

- IP68
- NEMA 4, 4X, 6, 6P, 12 & 13
- UL94-V0

Construction

- Electronic instrument enclosures, designed for mounting printed circuit boards or DIN rail mounted components.
- The polycarbonate material carries a UL flammability rating of UL94 V0 and is suitable for outdoor use.
- Lid and mounting holes are located outside of the gasket seal.
- Lid is secured with self-captivating M4 stainless steel machine screws (included), threaded into integral stainless steel bushings (for repetitive assembly & disassembly).
- Heavy duty 16 gauge galvanized steel mounting plates available (see chart)
- All stainless steel hardware to avoid corrosion caused by dissimilar metals.
- Gasket is a preformed, high temperature U.L. listed silicone rubber. Gasket is replaceable.

- Gasketed lid with two piece "tongue & groove" construction provides protection against access of oil, dust and water.
- Internal DIN rail mounting tabs.
- Threaded (M3) integral brass inserts & standoffs designed for M3.5 or #6 self tapping screws for P.C. board or inner mounting plate. Usable mounting depth (panel surface to inside lid) is overall depth less 14mm.
- Vertical P.C. card guides (for 1.5 mm thick P.C. boards) are milled in all but the smallest size

Finish

- Colour is light gray (RAL 7035)

Accessories

- Optional Mounting Plate
 - Heavy duty panels for mounting components
 - Galvanized 16 ga. steel.
 - Includes mounting hardware.
- Optional Wallmount Brackets
 - Part No. 1554FT

22 mm Hole Part No.	# of Holes	Enclosure			Optional Inner Panel		
		H	W	D (mm)	Part No.	H	W
1554MPB1	1	90	90	60	1554EPL	79	79
1554MPB1A	1	90	90	90	1554EPL	79	79
1554MPB2	2	160	90	60	1554LPL	147	76
1554MPB2D	2	160	90	90	1554LPL	147	76
1554MPB3	3	200	120	90	1554UPL	193	107
1554MPB4	4	200	120	90	1554UPL	193	107
1554MPB6	6	240	160	90	1554VPL	231	145
1554MPB6A	6	240	160	90	1554VPL	227	146
1554MPB8	6	240	160	120	1554VPL	227	146

Technical references and CAD downloads available at www.hammondmfg.com All dimensions in mm unless specified otherwise

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Using the Hammond Quick Link Feature

- This catalogue provides key feature and size information for our products.
- Detailed CAD drawings can be found on our website by following the "Quick Link" - once there, simply click on the appropriate part number
- For some series, only our most popular sizes are shown in this catalogue. By going to the "Quick Link" page, all available sizes will be displayed.

IP68, Type 4X/6P Polycarbonate Enclosures *1554 Series*

Watertight, Flat Lid, UL Listed Options



Quick Link: hammfg.com/1554

Application

- Ideally suited for mounting printed circuit boards or DIN rail/panel mounted components.

Standards

- Designed to meet IP ratings up to and including IP68 and meet NEMA Type 4, 4X, 6, 6P, 12 & 13 ratings. (Except 1554 V size which is 4,4X only)
- cUL and UL 508A listed (File # E65324).
- UV stabilised for outdoor use. Grey polycarb carries a UL94-5VA rating, while clear lids carry a UL94V-0 rating.

Construction

- Available with solid grey and clear lid.
- Gasketed lid with two piece "tongue & groove" construction provides protection against access of oil, dust and water.
- Gasket is one piece made from high temperature, U.L. listed silicone.
- Wall-mounting holes are located outside of the gasket channel.
- Same wall mounting holes can be used to install a wall mounting bracket, part number **1554FT**
- Lid is secured with included M4 stainless steel machine screws which are threaded into integral stainless steel bushings for repetitive assembly & disassembly. All hardware is stainless steel to avoid corrosion caused by dissimilar metals.
- Lid screws are self capturing (lid holes are threaded with the first installation of lid screws).

- Internal features are maximised for mounting options and vary with size:
 - Internal DIN rail mounting tabs moulded into most models, except sizes "C" and "D".
 - Threaded (M3) integral brass inserts and/or standoffs (#6 self tapping screws) for P.C. board or inner mounting plate.. Usable mounting depth (panel surface to inside lid) is overall depth less 14mm.
 - Vertical P.C. card guides (for 1.5 mm thick P.C. boards) are moulded in.

Finish

- Enclosure colour is a light grey (RAL 7035).

Accessories

- Pole Mount Kit
- Breather Kit
- Small Rainproof Ventilator
- Pressure Compensation Plug
- Liquid-Tight Cordgrips (Nylon)
- Liquid-Tight Cordgrips (Nickel Plated Brass)

IP68, Type 4X/6P Polycarbonate Enclosures *1554 Series*

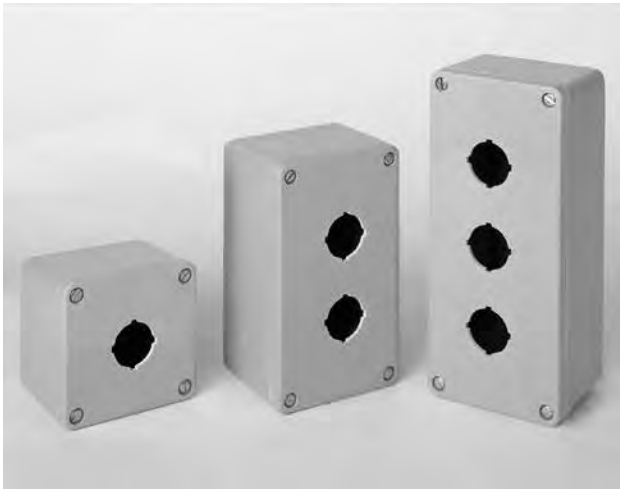
Watertight, Flat Lid, UL Listed Options

Solid Grey Lid		Clear Lid			Optional Mounting Plate			Max 175mm Pole Kit
Part No.	Part No.	H	W	D (w/lid)	Part Number	H	W	Part Number
1554C2GY	1554C2GYCL	119	66	41	1554CPL	112	53	n/a
1554E2GY	1554E2GYCL	89	89	60	1554EPL	79	79	PMB5057KIT1
1554L2GY	1554L2GYCL	105	105	60	1554LPL	94	91	PMB6687KIT1
1554D2GY	1554D2GYCL	119	66	60	1554CPL	112	53	n/a
1554F2GY	1554F2GYCL	119	89	60	1554FPL	109	79	PMB5057KIT1
1554N2GY	1554N2GYCL	119	119	60	1554NPL	107	86	PMB6687KIT1
1554Q2GY	1554Q2GYCL	140	140	60	1554QPL	127	119	PMB110127KIT1
1554J2GY	1554J2GYCL	160	89	60	1554JPL	147	76	PMB5057KIT1
1554R2GY	1554R2GYCL	160	160	60	1554RPL	150	147	PMB110127KIT1
1554H2GY	1554H2GYCL	180	119	60	1554HPL	168	107	PMB6687KIT1
1554W2GY	1554W2GYCL	180	180	60	1554WPL	168	168	PMB110127KIT1
1554G2GY	1554G2GYCL	119	89	80	1554FPL	109	79	PMB5057KIT1
1554EE2GY	1554EE2GYCL	89	89	90	1554EPL	79	79	PMB5057KIT1
1554LA2GY	1554LA2GYCL	105	105	90	1554LPL	94	91	PMB110127KIT1
1554P2GY	1554P2GYCL	119	119	90	1554NPL	107	86	PMB6687KIT1
1554QA2GY	1554QA2GYCL	140	140	90	1554QPL	127	119	PMB110127KIT1
1554K2GY	1554K2GYCL	160	89	90	1554JPL	147	76	PMB5057KIT1
1554S2GY	1554S2GYCL	160	160	90	1554RPL	150	147	PMB110127KIT1
1554T2GY	1554T2GYCL	180	119	90	1554HPL	168	107	PMB6687KIT1
1554WA2GY	1554WA2GYCL	180	180	90	1554WPL	168	168	PMB110127KIT1
1554U2GY	1554U2GYCL	201	119	90	1554UPL	193	107	PMB6687KIT1
1554V2GY	1554V2GYCL	239	160	90	1554VPL	231	145	PMB110127KIT1
1554VA2GY	1554VA2GYCL	239	160	90	1554VAPL	227	146	PMB110127KIT1
1554X2GY	1554X2GYCL	300	201	90	1554XPL	284	185	PMB180200KIT1
1554Y2GY	1554Y2GYCL	300	239	94	1554YPL	284	226	PMB180200KIT1
1554VB2GY	1554VB2GYCL	239	160	119	1554VAPL	227	146	PMB110127KIT1
1554XA2GY	1554XA2GYCL	300	201	119	1554XPL	284	185	PMB180200KIT1
1554YA2GY	1554YA2GYCL	300	239	119	1554YPL	284	226	PMB180200KIT1

For Max 380mm Pole Mount Kit, part number is "KIT2" version.

IP68, Type 4, 4X Polycarbonate Pushbutton Enclosure *1554PB Series*

1554 PB Series



Quick Link: hammfg.com/1554PB

Standards

- IP68
- NEMA 4, 4X, 6, 6P, 12 & 13
- UL94-5VA

Construction

- Electronic instrument enclosures, designed for mounting printed circuit boards or DIN rail mounted components.
- The polycarbonate material carries a UL flammability rating of UL94 5V and is suitable for outdoor use.
- Lid and mounting holes are located outside of the gasket seal.
- Lid is secured with self captivating M4 stainless steel machine screws (included), threaded into integral stainless steel bushings (for repetitive assembly & disassembly).
- Heavy duty 16 gauge galvanised steel mounting plates available (see chart)
- All stainless steel hardware to avoid corrosion caused by dissimilar metals.
- Gasket is a preformed, high temperature U.L. listed silicone rubber. Gasket is replaceable.

- Gasketed lid with two piece “tongue & groove” construction provides protection against access of oil, dust and water.
- Internal DIN rail mounting tabs.
- Threaded (M3) integral brass inserts & standoffs designed for M3.5 or #6 self tapping screws for P.C. board or inner mounting plate. Usable mounting depth (panel surface to inside lid) is overall depth less 14mm.
- Vertical P.C. card guides (for 1.5 mm thick P.C. boards) are moulded in all but the smallest size

Finish

- Colour is light grey (RAL 7035)

Accessories

- Optional Mounting Plate
 - Heavy duty panels for mounting components
 - Galvanised 16 ga. steel.
 - Includes mounting hardware.
- Optional Wallmount Brackets
 - Part No. **1554FT**

22 mm Hole		# of Holes	Enclosure			Optional Mtg Plate		
Part No.	H		W	D (w/lid)	Part No.	H	W	
1554MPB1	1	90	90	60	1554EPL	79	79	
1554MPB1A	1	90	90	90	1554EPL	79	79	
1554MPB2	2	160	90	60	1554JPL	147	76	
1554MPB2D	2	160	90	90	1554JPL	147	76	
1554MPB3	3	200	120	90	1554UPL	193	107	
1554MPB4	4	200	120	90	1554UPL	193	107	
1554MPB6	6	240	160	90	1554VPL	231	145	
1554MPB6A	6	240	160	90	1554VAPL	227	146	
1554MPB6B	6	240	160	120	1554VAPL	227	146	

IP68, Type 4X, 6P Polycarbonate Enclosures *1555F Series*

Watertight, Flanged Lid, UL Listed Options



Quick Link: hammfg.com/1555F

Application

- Designed for harsh industrial environments or outdoor applications (security, outdoor wireless, controls etc. etc.)
- Ideally suited for mounting printed circuit boards, mounting plates or DIN rail mounted components. Cover features a smooth recessed area perfect for membrane keypads or labels. Base features robust mounting flanges capable of withstanding abuse.
- Designed for wall mounting. Interior is secure as lid screws are behind the lid. Can be made more secure if wall mounted with security screws (tamper resistant screws).

Standards

- Designed to meet IP ratings up to and including IP68 and NEMA Type 4, 4X, 6, 6P, 12 & 13 ratings.
- UL 508A listed (File # E65324).
- Polycarbonate material carries a UL flammability rating of UL94 5VA @ 3mm - Recommended for outdoor use.

Construction

- Flanged lid is secured with self captivating M4 stainless steel machine screws (included), threaded into integral stainless steel bushings for repetitive assembly & disassembly. All hardware is stainless steel to avoid corrosion caused by dissimilar metals.
- Flanged lid screws are self captivating (lid holes are threaded with the first installation of lid screws).
- Internal features are maximised for mounting options and vary with size:
 - Internal DIN rail mounting tabs moulded into lid (except smaller 1555CF22 & 1555CF42 enclosures).
 - Standoffs (#6 self tapping screws) for P.C. board or inner mounting plate
- Standoffs moulded in the interior of the lid & enclosure - designed for #4 x 1/4" self tapping screws (our part number **1555TS100**)
- Gasket is one piece made from high temperature, U.L. listed silicone.
- Gasketed lid with two piece "tongue & groove" construction provides protection against access of oil, dust and water.
- Optional galvanised steel inner mounting plates are available.

Finish

- Colour is a light grey (RAL 7035) to help keep heat absorption down.
- Satin texture finish with smooth recessed surface on lid for a membrane keypad or label.

Accessories

- Breather Kit
- Pressure Compensation Plug
- Small Rainproof Ventilator
- Liquid-Tight, Strain Relief Cordgrips
- Pole Mount Kit

Part Number	H	W	D	Optional Mounting Plate			Max 175mm Pole Kit
				Part Number	H	W	Part Number
1555F2F17GY	119	91	37	1555FFPL	109	76	PMB5057KIT1
1555N2F17GY	119	119	37	1555NFPL	107	107	PMB6687KIT1
1555J2F17GY	160	91	37	1555JFPL	147	76	PMB5057KIT1
1555H2F17GY	180	119	37	1555HFPL	160	84	PMB6687KIT1
1555C2F22GY	119	66	42	1555CFPL	109	51	n/a
1555C2F42GY	119	66	62	1555CFPL	109	51	n/a
1555F2F42GY	119	91	62	1555FFPL	109	76	PMB5057KIT1
1555N2F42GY	119	119	62	1555NFPL	107	107	PMB6687KIT1
1555J2F42GY	160	91	62	1555JFPL	147	76	PMB5057KIT1
1555H2F42GY	180	119	62	1555HFPL	160	84	PMB6687KIT1

For Max 380mm Pole Mount Kit, part number is "KIT2" version.

IP66, Type 4X Polycarbonate Junction Box *PCJ Series*

Metal Latch Cover



Quick Link: hammfg.com/PCJ-SL

Application

- Designed to insulate and protect controls and components in both indoor and outdoor conditions
- Ideal for industrial pump controls, waste water, irrigation control along with solar/wind and chemical plants

Standards

- Complies with
 - IEC 60529, IP66
 - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
 - Flammability V-O per UL 94
 - UV rating (f1) per UL746C - UV stabilised for outdoor use
 - Compliant with RoHS directive
- UL 508A Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13

Construction

- Injection moulded polycarbonate thermoplastic enclosure with matching cover is easily punched, cut, or drilled
- Enhanced UV inhibitors protect against outdoor weathering
- Threaded brass inserts are provided for optional inner mounting plate or terminal kit mounting. Mounting hardware is included
- Stainless steel 316 screw fasteners
- Door fasteners include a provision for padlocking on Snap Latches
- Moulded hinge with 316 stainless steel pin
- Captive oil resistant gasket provides a positive seal
- Includes wall mount brackets
- Operating temperatures between -35°C and 130°C
- Impact index of 16J (12 ft/lb)

Finish

- Polycarbonate material has a light grey finish
- Optional inner mounting plates are available in white powder coated finished steel.

Accessories

- Additional Inner Panels
- Swing Panel
- Pole Mounting Kit

Solid Cover w/Feet Part No.	Enclosure			Optional Mounting Plate		
	H	W	D	Part No.	H	W
PCJ664L	151	156	101	PCJR0505	122	122
PCJ864L	202	156	101	PCJR0705	171	124
PCJ884L	202	207	101	PCJR0808	171	175
PCJ1082L	252	207	69	PCJR0907	222	175
PCJ1084L	252	207	101	PCJR0907	222	175
PCJ1086L	252	207	152	PCJR0907	222	175
PCJ12104L	303	258	101	PCJR1109	273	226
PCJ12106L	303	258	152	PCJR1109	273	226
PCJ14126L	354	309	152	PCJR1311	324	276
PCJ16148L	406	355	198	14R1513	375	327
PCJ181610L	458	407	249	P1868	429	378

Alternative mounting plate options available.

IP65, Type 4, 4X Glass Reinforced Polyester Enclosures *1590ZGRP Series*

Watertight, Thick Wall, NEMA 4X, IP65, UL Listed



Quick Link: hammfg.com/1590ZGRP

Application

- Designed for use as instrument enclosures, electrical junction boxes or terminal wiring enclosures.
- Provide outstanding protection against dust, dirt, and water.

Standards

- IP65 Rated
- cUL & UL listed. Industrial Control Panel Enclosure Certified to NEMA 4, 4X standards (UL 508A) - File #E65324

Construction

- Includes gasketed lid with two piece "tongue & groove" construction.
- Heavy duty, thick wall design.
- Lid contains self captivated stainless steel screws.
- Wall-mounting holes are located outside the gasket perimeter.
- Easy wall mounting via "through box - blind hole" construction, outside of the gasket protection.
- Gasket material is Mohogumi rubber (EDPM). Heat resistance 100-120°C, cold - 40°C
- Internal mounting shelf (for optional inner panels or PC boards) and bonding / mounting nuts moulded in.
- Optional 14 gauge, galvanised steel inner mounting plates available. Usable mounting depth (panel surface to inside lid) is overall depth less +/- 20mm.
- Optional hinge kit, part number **1427HK** moulded from tough polyester. Note: with hinges installed, all four lid screws are required to maintain a proper seal.

Finish

- Moulded from a medium grey, glass reinforced polyester. Smooth finish.

Accessories

- Pole Mount Kit
- Pressure Compensation Plug
- Breather Kit
- Small Rainproof Ventilator
- Liquid-Tight, Strain Relief Cordgrips

Part Number	Enclosure			Optional Mounting Plate			Max 175mm Pole Kit
	H	W	D (w/lid)	Part Number	H	W	Part Number
1590ZGRP081	81	75	55	1590ZGRP081PL	68	63	PMB4045KIT1
1590ZGRP082	110	75	55	1590ZGRP082PL	97	62	PMB4045KIT1
1590ZGRP083	160	75	55	1590ZGRP083PL	149	63	PMB4045KIT1
1590ZGRP131	190	75	55	1590ZGRP131PL	179	63	PMB4045KIT1
1590ZGRP084	81	75	75	1590ZGRP081PL	68	63	PMB4045KIT1
1590ZGRP163	361	160	90	1590ZGRP163PL	344	144	PMB110127KIT1
1590ZGRP161	160	160	90	1590ZGRP161PL	142	142	PMB110127KIT1
1590ZGRP123	220	120	90	1590ZGRP123PL	205	105	PMB6687KIT1
1590ZGRP162	260	160	90	1590ZGRP162PL	243	143	PMB110127KIT1
1590ZGRP121	120	121	91	1590ZGRP121PL	108	107	PMB6687KIT1
1590ZGRP233	200	250	115	1590ZGRP233PL	234	184	PMB180200KIT1
1590ZGRP253	405	400	120	1590ZGRP253PL	388	383	n/a
1590ZGRP263	600	250	120	1590ZGRP263PL	583	233	PMB180200KIT1
1590ZGRP234	255	251	120	1590ZGRP234PL	238	232	PMB180200KIT1
1590ZGRP243	400	250	120	1590ZGRP243PL	382	232	PMB180200KIT1
1590ZGRP244	400	250	160	1590ZGRP243PL	382	232	PMB180200KIT1
1590ZGRP264	600	250	160	1590ZGRP263PL	583	233	PMB180200KIT1
1590ZGRP235	255	251	161	1590ZGRP234PL	238	232	PMB180200KIT1

For Max 380mm Pole Kit, part number is "KIT2" version.

IP66, Type 4X Glass Reinforced Polyester Junction Box *PJU Series*

Continuous Hinge Door with Snap Latches



Quick Link: hammfg.com/PJU

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides outstanding insulation and protection where equipment may be hosed down or be very wet.
- Ideal in applications with high temperatures or highly corrosive environments.

Standards

- Complies with
 - IEC 60529, IP66
 - NEMA Type 1, 2, 3, 4, 4X, 12 and 13
- UL 508A Type 1, 2, 3, 4, 4X, 12 and 13
- CSA Type 1, 2, 3, 4, 4X, 12 and 13

Construction

- Moulded fibreglass polyester enclosure with matching cover is easily punched, cut or drilled.
- Enhanced UV inhibitors protect against outdoor weathering.
- Threaded brass inserts are provided for optional inner mounting plate or terminal kit mounting. Mounting hardware is included.
- Stainless steel draw type “snap latch” door fasteners.
- Door fasteners include a provision for padlocking.
- Moulded hinge with stainless steel pin.
- Captive oil resistant gasket provides a positive seal.
- Includes wall mount brackets
- Operating temperatures between -40°C and 130°C
- Impact index of 6.78J (5 ft/lb).

Finish

- Fibreglass polyester material has a light grey finish.
- Optional inner mounting plates are available in white powder coated finished steel.

Accessories

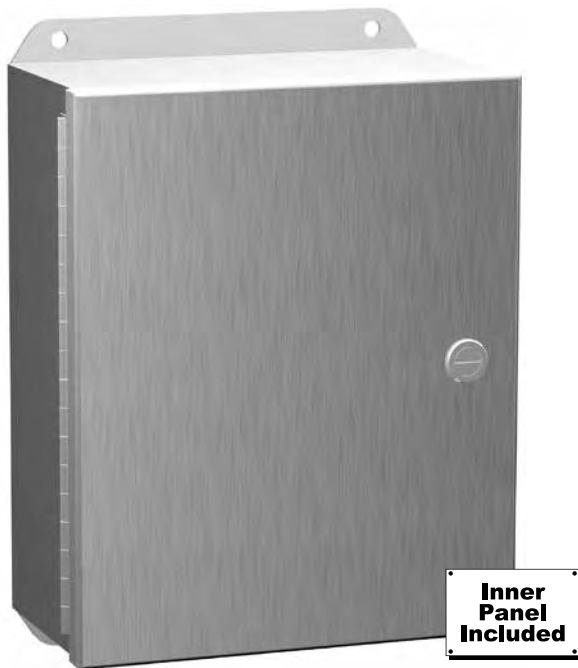
- Additional Inner Panels
- Swing Panels
- Pole Mounting Kit

Solid Cover w/Feet Part No.	Enclosure			Optional Mounting Plate		
	H	W	D	Part No.	H	W
PJU664L	154	159	105	14R0505	124	124
PJU864L	204	159	105	14R0705	171	124
PJU1084L	255	210	105	14R0907	222	175
PJU12106L	306	261	156	14R1109	273	226
PJU14126L	357	312	156	14R1311	324	276
PJU16148L	408	362	207	14R1513	375	327
PJU181610L	465	420	257	P1868	429	378
PJU201610L	521	413	257	P2068	468	367

Alternative mounting plate options available.

IP66, Type 4X Stainless Steel Junction Box *Eclipse Junior Series*

Continuous Hinge Door with Quarter Turn



Quick Link: hammfg.com/EJSS

Application

- Designed for use as instrument enclosures, electric, hydraulic or pneumatic control housings, electrical junction boxes or terminal wiring enclosures.
- Provides protection where equipment may be hosed down or otherwise be very wet, or in specific applications where corrosion may be a problem.
- For high temperature applications, a gasket retainer may be required, please refer to factory.

Standards

- Complies with
 - IEC 60529, IP66
 - NEMA Type 3R, 4, 4X, 12 and 13
- UL 508A Type 3R, 4, 4X, 12, and 13
- CSA Type 3R, 4, 4X, 12, and 13

Construction

- Body and cover are formed from 16 gauge 304 stainless steel.
- Smooth, continuously welded seams without knockouts, cutouts, or holes.
- Formed lip on enclosure to exclude flowing liquids and contaminants.
- 14 gauge welded brackets provide for enclosure mounting.
- Continuously hinged cover has stainless steel hinges and provides 180° opening.
- Door latches feature the added safety of quarter turn slot requiring use of tool for opening.
- Easy open, slotted quarter turn latches formed from 316 stainless steel.
- Padlock adapter available for added security - Part number EJPA
- Seamless poured-in place gasket.
- Includes a removable 14 gauge galvanised inner mounting plate.
- Tapped studs are provided for mounting inner mounting plate.
- A bonding stud is provided on the door and a grounding stud is provided on the enclosure.
- Grounding and mounting plate mounting hardware provided.

Finish

- Cover and enclosure are natural stainless steel with a smooth brushed finish.
- Removable inner mounting plate is unpainted galvanised steel.

Accessories

- Additional Inner Panels
- Swing Panel Kit
- Terminal Kit Assemblies
- Padlock Adaptor
- Quarter Turn Assemblies
- Climate Control
- General Accessories

304 S.S. Part No.	Enclosure			Mounting Plate	
	H	W	D	H	W
EJ863SS	203	152	89	171	124
EJ644SS	152	102	102	124	73
EJ664SS	152	152	102	124	124
EJ884SS	203	203	102	171	175
EJ1086SS	254	203	152	222	175
EJ12106SS	305	254	152	273	226
EJ12126SS	305	305	152	273	276
EJ14126SS	356	305	152	324	276
EJ12108SS	305	254	203	273	226
EJ14128SS	356	305	203	324	276
EJ161410SS	406	356	254	375	327

IP68, Type 4X/6P Diecast Aluminum Enclosures *1590Z Series*

Watertight, Thick Wall, UL Listed



Quick Link: hammfg.com/1590Z

Application

- Rugged, diecast aluminum alloy (tough yet easy to machine), electronic instrument enclosure.

Standards

- Designed to meet IP68.
- North American Mark of Safety - cUL & UL listed. Certified to Type 4, 4X, 6, 6P.

Construction

- Two piece “tongue & groove” construction with a one piece silicone rubber gasket provides protection against access of dust and water.
- Four recessed stainless steel machine screws secure lid into tapped holes. Ideal for repetitive opening and closing.
- Easy to wall mount using “through box - blind hole” construction, outside of gasket protection.
- Lid screws are self capturing (lid holes are threaded with the first installation of lid screws).

Finish

- Unpainted versions are a natural aluminum finish.
- Painted versions are painted inside and out with a tough powder paint. Choice of satin black or smooth grey (RAL 7001).

Accessories

- Pole Mount Kit
- Pressure Compensation Plug
- Breather Kit
- Small Rainproof Ventilator
- Liquid-Tight, Strain Relief Cordgrips

IP68, Type 4X/6P Diecast Aluminum Enclosures *1590Z Series*

Watertight, Thick Wall, UL Listed

Part Number	Colour	Internal		Enclosure			Optional Mounting Plate			Max 175mm Pole Kit
		Mounting Shelf	H	W	D (Less Lid)	Part Number	H	W	Part Number	
1590Z100	Natural	YES	75	80	40	1590Z100PL	69	64	n/a	
1590Z100BK	Black	YES	75	80	40	1590Z100PL	69	64	n/a	
1590Z100GY	Grey	YES	75	80	40	1590Z100PL	69	64	n/a	
1590Z140	Natural	YES	250	80	40	1590Z140PL	239	67	n/a	
1590Z140BK	Black	YES	250	80	40	1590Z140PL	239	67	n/a	
1590Z140GY	Grey	YES	250	80	40	1590Z140PL	239	67	n/a	
1590Z120	Natural	YES	124	80	44	1590Z120PL	114	70	n/a	
1590Z120BK	Black	YES	124	80	44	1590Z120PL	114	70	n/a	
1590Z120GY	Grey	YES	124	80	44	1590Z120PL	114	70	n/a	
1590Z119	Natural	YES	122	120	60	1590Z119PL	108	107	PMB6687KIT1	
1590Z119BK	Black	YES	122	120	60	1590Z119PL	108	107	PMB6687KIT1	
1590Z119GY	Grey	YES	122	120	60	1590Z119PL	108	107	PMB6687KIT1	
1590Z164	Natural	YES	361	120	60	1590Z164PL	345	104	PMB6687KIT1	
1590Z164BK	Black	YES	361	120	60	1590Z164PL	345	104	PMB6687KIT1	
1590Z164GY	Grey	YES	361	120	60	1590Z164PL	345	104	PMB6687KIT1	
1590Z150	Natural	YES	221	120	61	1590Z150PL	207	106	PMB6687KIT1	
1590Z150BK	Black	YES	221	120	61	1590Z150PL	207	106	PMB6687KIT1	
1590Z150GY	Grey	YES	221	120	61	1590Z150PL	207	106	PMB6687KIT1	
1590Z155	Natural	YES	221	120	61	1590Z150PL	207	106	PMB6687KIT1	
1590Z155BK	Black	YES	221	120	61	1590Z150PL	207	106	PMB6687KIT1	
1590Z155GY	Grey	YES	221	120	61	1590Z150PL	207	106	PMB6687KIT1	
1590Z162	Natural	YES	260	159	70	1590Z162PL	243	148	PMB110127KIT1	
1590Z162BK	Black	YES	260	159	70	1590Z162PL	243	148	PMB110127KIT1	
1590Z162GY	Grey	YES	260	159	70	1590Z162PL	243	148	PMB110127KIT1	
1590Z160	Natural	YES	160	160	70	1590Z160PL	148	144	PMB110127KIT1	
1590Z160BK	Black	YES	160	160	70	1590Z160PL	148	144	PMB110127KIT1	
1590Z160GY	Grey	YES	160	160	70	1590Z160PL	148	144	PMB110127KIT1	
1590Z166	Natural	YES	360	160	70	1590Z166PL	345	145	PMB110127KIT1	
1590Z166BK	Black	YES	360	160	70	1590Z166PL	345	145	PMB110127KIT1	
1590Z166GY	Grey	YES	360	160	70	1590Z166PL	345	145	PMB110127KIT1	
1590Z231	Natural	YES	230	200	92	1590Z231PL	215	185	PMB180200KIT1	
1590Z231BK	Black	YES	230	200	92	1590Z231PL	215	185	PMB180200KIT1	
1590Z231GY	Grey	YES	230	200	92	1590Z231PL	215	185	PMB180200KIT1	
1590Z235	Natural	YES	332	232	111	1590Z235PL	317	218	PMB180200KIT1	
1590Z235BK	Black	YES	332	232	111	1590Z235PL	317	218	PMB180200KIT1	
1590Z235GY	Grey	YES	332	232	111	1590Z235PL	317	218	PMB180200KIT1	

For Max 380mm Pole Mount Kit, part number is "KIT2" version.

Liquid-Tight Cord Grips (Nickel Plated Brass)

IP68, UL Listed. PG & Metric



Features

- Liquid-tight cordgrip made from nickel plated brass
- Used where cable is entering or leaving an enclosure.
- Accepts a wide range of cable diameters due to large opening and NBR (nitrile rubber) seal.
- The strain relief elements tighten in a circular sequence on the sealing ring to give outstanding strain relief without twisting or damaging the cable.
- Use the cordgrip with the smallest maximum diameter that will fit your application.
- Locknut and EPDM O-ring included.
- Protection to IP68. Designed to meet NEMA Type 4, 4X, 6, 6P, 12 & 13.
- UL listed.

PG Threads

Part Number	Material	Thread Size (D)	Wire Diameter		Outer Length (L)	Inner Thread Length (T)
			Min	Max		
1427BCGPG7	Nickel Plated Brass	PG7	3	4	19	5
1427BCGPG9	Nickel Plated Brass	PG9	4	8	21	6
1427BCGPG11	Nickel Plated Brass	PG11	5	10	22	6
1427BCGPG13	Nickel Plated Brass	PG13	6	12	23	7
1427BCGPG16	Nickel Plated Brass	PG16	10	14	24	7
1427BCGPG21	Nickel Plated Brass	PG21	13	18	24	7
1427BCGPG29	Nickel Plated Brass	PG29	18	25	31	8
1427BCGPG36	Nickel Plated Brass	PG36	22	32	37	8
1427BCGPG42	Nickel Plated Brass	PG42	32	38	37	9
1427BCGPG48	Nickel Plated Brass	PG48	37	44	38	10

Metric Threads

Part Number	Material	Thread Size (D)	Wire Diameter		Outer Length (L)	Inner Thread Length (T)
			Min	Max		
1427BCGM12	Nickel Plated Brass	M12x1.5	3	7	19	7
1427BCGM16	Nickel Plated Brass	M16x1.5	4	8	21	6
1427BCGM16L	Nickel Plated Brass	M16x1.5	5	10	22	6
1427BCGM20	Nickel Plated Brass	M20x1.5	6	12	23	6
1427BCGM20L	Nickel Plated Brass	M20x1.5	10	14	24	6
1427BCGM25	Nickel Plated Brass	M25x1.5	13	18	25	7
1427BCGM32	Nickel Plated Brass	M32x1.5	18	25	31	8
1427BCGM40	Nickel Plated Brass	M40x1.5	22	32	37	8
1427BCGM50	Nickel Plated Brass	M50x1.5	32	38	37	9
1427BCGM63	Nickel Plated Brass	M63x1.5	29	35	38	10

Liquid-Tight Cordgrips (Nylon)

IP68, UL Listed. PG & Metric



Features

- Liquid-tight cordgrip made from nylon
- Available in black (RAL 9005) or grey (RAL 7035).
- Used where cable is entering or leaving an enclosure.
- Accepts a wide range of cable diameters due to large opening and NBR (nitrile rubber) seal.
- The strain relief elements tighten in a circular sequence on the sealing ring to give outstanding strain relief without twisting or damaging the cable.
- Use the cordgrip with the smallest maximum diameter that will fit your application.
- Nylon locknut and EPDM O-ring included.
- Operating Temperatures:
 - Static state: -40°C to 100°C (up to 120° instantaneous)
 - Dynamic state: -20°C to 80°C (up to 100° instantaneous)
- Protection to IP68. Designed to meet NEMA Type 4, 4X, 6, 6P, 12 & 13.
- UL94-V2 flammability rating.
- UL listed.

PG Threads (Extra Long)

Part Number (Grey)	Part Number (Black)	Material	Thread Size		Wire Diameter		Outer Length	Inner Thread Length
			(D)	(D)	Min	Max	(L)	(T)
1427NCGPG7LG	1427NCGPG7LB	Nylon	PG7	PG7	3	4	21	15
1427NCGPG9LG	1427NCGPG9LB	Nylon	PG9	PG9	4	8	22	15
1427NCGPG11LG	1427NCGPG11LB	Nylon	PG11	PG11	5	10	25	15
1427NCGPG13LG	1427NCGPG13LB	Nylon	PG13.5	PG13.5	6	12	27	15
1427NCGPG16LG	1427NCGPG16LB	Nylon	PG16	PG16	10	14	28	15

PG Threads (Standard Length)

Part Number (Grey)	Part Number (Black)	Material	Thread Size		Wire Diameter		Outer Length	Inner Thread Length
			(D)	(D)	Min	Max	(L)	(T)
1427NCGPG7G	1427NCGPG7B	Nylon	PG7	PG7	3	7	21	8
1427NCGPG9G	1427NCGPG9B	Nylon	PG9	PG9	4	8	22	8
1427NCGPG11G	1427NCGPG11B	Nylon	PG11	PG11	5	10	25	8
1427NCGPG13G	1427NCGPG13B	Nylon	PG13.5	PG13.5	6	12	27	9
1427NCGPG16G	1427NCGPG16B	Nylon	PG16	PG16	10	14	28	10
1427NCGPG19G	1427NCGPG19B	Nylon	PG19	PG19	12	15	30	12
1427NCGPG21G	1427NCGPG21B	Nylon	PG21	PG21	13	18	31	11
1427NCGPG29G	1427NCGPG29B	Nylon	PG29	PG29	18	25	37	11
1427NCGPG36G	1427NCGPG36B	Nylon	PG36	PG36	22	32	48	13
1427NCGPG42G	1427NCGPG42B	Nylon	PG42	PG42	32	38	49	13
1427NCGPG48G	1427NCGPG48B	Nylon	PG48	PG48	37	44	49	14

Metric Threads

Part Number (Grey)	Part Number (Black)	Material	Thread Size		Wire Diameter		Outer Length	Inner Thread Length
			(D)	(D)	Min	Max	(L)	(T)
1427NCGM12G	1427NCGM12B	Nylon	M12x1.5	M12x1.5	3	7	21	8
1427NCGM16G	1427NCGM16B	Nylon	M16x1.5	M16x1.5	4	8	22	8
1427NCGM16LG	1427NCGM16LB	Nylon	M16x1.5	M16x1.5	5	10	25	8
1427NCGM20G	1427NCGM20B	Nylon	M20x1.5	M20x1.5	6	12	27	9
1427NCGM20LG	1427NCGM20LB	Nylon	M20x1.5	M20x1.5	10	14	28	9
1427NCGM25G	1427NCGM25B	Nylon	M25x1.5	M25x1.5	13	18	31	11
1427NCGM32G	1427NCGM32B	Nylon	M32x1.5	M32x1.5	18	25	37	11
1427NCGM40G	1427NCGM40B	Nylon	M40x1.5	M40x1.5	22	32	48	13
1427NCGM50G	1427NCGM50B	Nylon	M50x1.5	M50x1.5	32	38	49	13
1427NCGM63G	1427NCGM63B	Nylon	M63x1.5	M63x1.5	37	44	49	14

Hole Plugs

IP66, Stainless Steel



Features

- Designed to seal unused pushbutton holes, conduit openings and knockout holes against dust, oil and water.
- Stainless Steel Hole Plugs
 - Protect to IP66
 - Finished in brushed natural 304 stainless steel finish.
 - Oil resistant gasket.
 - Secured with an 10-24 x 0.55" threaded stud and plated wing nut.

Part No.	Max Hole Diameter	Plug Diameter
HP22SS	22	31
HP50SS	22	35
HP75SS	27	40
HPBSS	32	44
HP100SS	35	48
HP125SS	43	56
HP150SS	51	64
HP200SS	64	76

Hole Plugs

IP66, Type 4X Non-metallic - UR/cUR



Features

- Designed to seal unused pushbutton holes, conduit openings and knockout holes against dust, oil and water.
- Available in RAL7035 light grey (LG)
- Self centering, anti-rotational design for fast and easy one person installation, no tools required
- Recognised component for use with UL & CSA listed enclosures
 - IP66
 - Type 1, 3, 3R, 4, 4X
- Moulded in polycarbonate with neoprene/EPDM gasket material

RAL7035 Part No.	Plugged Hole Diameter Range	Wall Thickness Range	External Dia.
HP12PCLG	13 - 21	2 - 6	28
HP50PCLG	21 - 24	2 - 6	32
HP75PCLG	25 - 33	2 - 6	41
HP100PCLG	35 - 41	2 - 6	49
HP125PCLG	43 - 48	2 - 6	55
HP150PCLG	51 - 56	2 - 6	64
HP200PCLG	64 - 70	2 - 6	79

Large Rainproof Ventilator



- Designed to equalise internal / external pressure and temperature
- Ventilators assist in condensation prevention by allowing enclosures to breathe
- Suitable for most types of metallic and non-metallic enclosures
- Moulded in corrosion resistant UV stabilised polycarbonate, finish RAL7035 light grey
- Gasket protection to enclosure wall
- Approximately 69mm high x 51mm
- Mount to enclosure wall thickness up to 4mm with standard screws
- Internal vent channel & grille reduces insect intrusion
- Complies with IEC 60529 IP24, NEMA Type 3R,
- Package quantity 1

Part No.	SDV280-1
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Small Rainproof Ventilator



- Designed to equalise internal / external pressure and temperature
- Ventilators assist in condensation prevention by allowing enclosures to breathe Suitable for most types of metallic and non-metallic enclosures
- Moulded in corrosion resistant UV stabilised polycarbonate, finish RAL7035 light grey
- Gasket protection to enclosure wall
- Approximately 30mm high x 25mm wide
- Mount to enclosure wall thickness up to 4mm
- Internal vent channel & grille reduces insect intrusion
- Complies with IEC 60529 IP24, NEMA Type 3R,
- Package quantity 1

Part No.	SDV180-1
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Your Source for North American Style UL/CSA Enclosures

Hammond Manufacturing was established in 1917 and was built on a history of quality products and service excellence. Originating in Canada, the company now markets our wide range of products globally.

A significant part of our business includes a full range of electrical enclosures designed for the North American market and meet the local standards like UL, CSA, NEMA, etc.

While a number of these products are not common outside North America, should you have requirements for export or to otherwise address a North American specification, Hammond Manufacturing offer 5000+ parts to suit your needs.



Product Categories:

- Mild Steel Enclosures
- Stainless Steel Enclosures
- Aluminum Enclosures
- Non-Metallic Enclosures
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- Pushbutton Enclosures
- Wireway & Cable Management
- Commercial Enclosures
- Climate Control Accessories
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To learn more about our North American products,
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Hammond Modified Enclosures

...delivered to your specifications

When a standard enclosure isn't exactly what you need, Hammond can modify our designs for the ideal enclosure solution. Should you need some assistance specifying your enclosure, our experienced sales and design professionals will share their expertise to help determine which enclosure would best fit your needs.

Here's a list of some of the common modifications we can do for you:

- Special Paint Colours
- Silk Screening
- Non-standard Sizes
- Alternate Material Construction
- Cutouts
- Punched Holes
- Louvers
- Tapped Holes
- Pre-Installed Accessories
- Alternate Handles
- Add, Move or Delete Studs
- Hinge Changes
- and much more!

Why have Hammond Modify Your Enclosure?

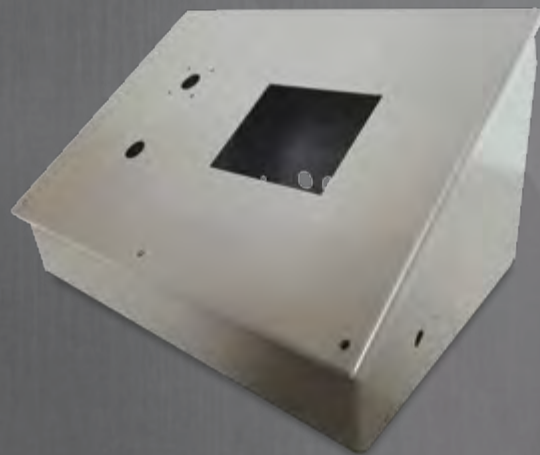
There are two good reasons – quality and cost.

Hammond is a name trusted for enclosure quality for many years.

Our highly accurate laser work centres and CNC punches can guarantee the exact location and dimensions of your holes and cutouts.

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Consider the true costs of modifying enclosures at your factory. When you add up prep time, layout, drilling, tapping, cutting, paint touch-up, assembly and the extra product handling, you'll see the value in getting an enclosure from Hammond that's ready to load up.



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Industrial Product Guide