

Ex-Cell Steel Enclosures

Product Introduction

The "Ex-Cell" enclosure range is an "ATEX", "IECEX", "UL" and "GB" certified enclosure/termination solution for category 2 (Zone1) application and fully compliant with the related impact, thermal and ingress requirements with an ingress protection of IP. "Ex-Cell" is available in a comprehensive range of different sizes, each with the facility for various configuration possibilities for a multitude of applications.

With our engineering service and customization capability, we can supply fittings like cable glands, breather drains and blanking plugs upon specification request. Components such as pushbuttons, switches, ammeters, etc. and foundation field-bus modules can be certified and available to be fitted for a wide range of "customized" solutions.

Using the highest quality materials, some unique design benefits and precision manufacturing the **Ex-Cell** range is the benchmark in enclosures for both instrumentation and electrical applications.



The 1/4 turn lock or the retained stainless steel slotted hex bolt fastenings provide a rapid means of achieving high integrity ingress protection (IP 66) for reliable and rapid environmental protection.



The high integrity "single piece" sealing gasket is designed for superior ingress protection (IP 66) and excellent recovery and re-sealing properties for continuous environmental protection.



An integral drainage channel prevents liquids or other solids contaminants from running in or falling into the enclosure when the door is opened, and to minimize gasket path contamination.



An integral external & internal feed through brass earth / ground stud assembly enables rapid and reliable protective earth / ground connection mounted on the side of the enclosure for ease of access.



Door document holder opti.



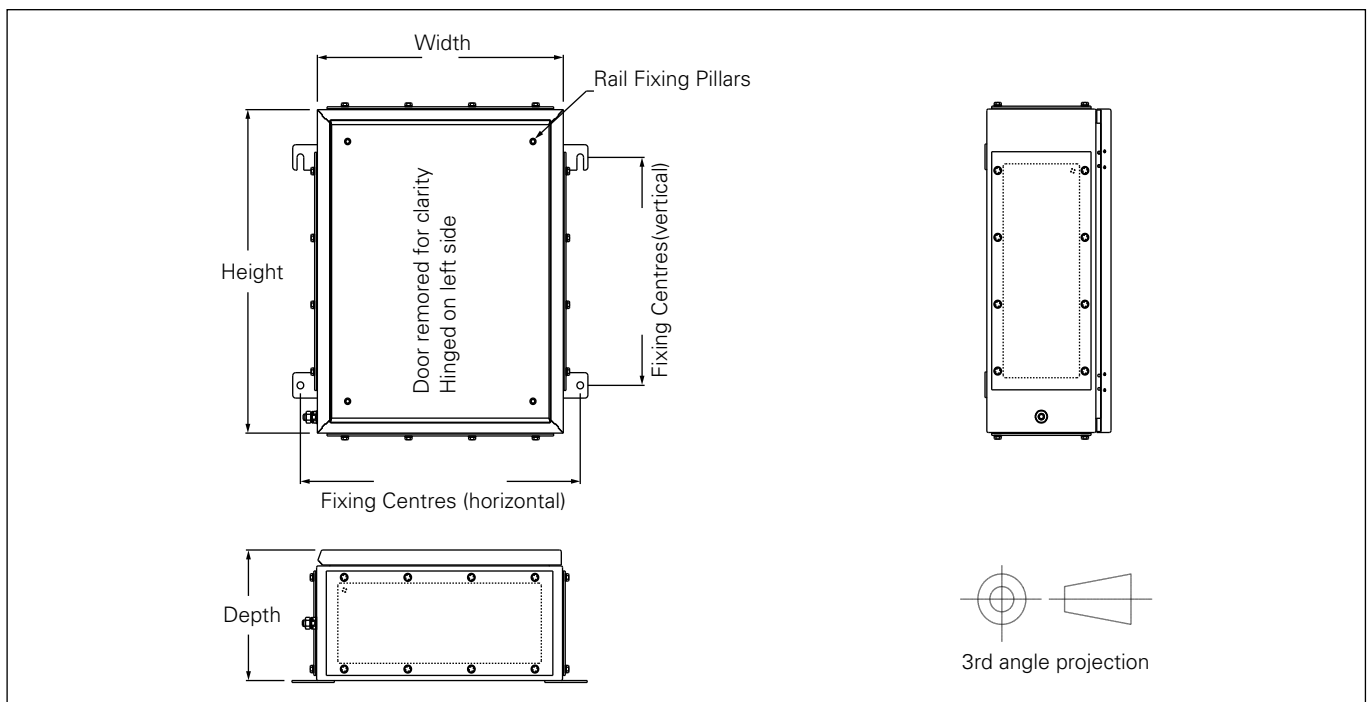
Security padlock Hasp opti.

Ex-Cell Steel Enclosures

Technical Data

Material / Finish	316L Stainless Steel (1.4404 to EN 10088), brush finish or OPTIONAL electro chemical polish 304 Stainless Steel (1.4301 to EN 10088), brush finished or OPTIONAL electro chemical polish
Gasket material	High integrity "one piece" closed cell expanded silicone
Door fastening	Chromium plated Zinc 1/4 turn lock with stainless steel hinges (two latches fitted on sizes 50cm high and above) (Double bit lock supplied as standard with other key options on request) Captive stainless steel bolt door fastenings available on request (Optional factory fitted padlock hasp available on request)
Enclosure mounting	4 x external 3mm thick welded lugs 11mm Ø holes / slots, vertical or horizontal
Equipment mountings	4 x stand off pillars 9mm Ø, 25mm high, tapped M6 x10, for rail / mounting plate
Gland plates	Optional 3mm thick gland plates available in bottom side, left hand or right hand sizes
Enclosure earthing	M10 internal / external brass earth stud assembly M6 internal stud on lid gland plates
Degree of protection	Certified IP66 to EN60529.
Certified ambient temp range	-55°C (-67°F) to +55°C (131°F)
Certified impact resistance	7 J (Nm) to EN 60014
Marking acc. to ATEX	⊕ II 2 G Ex e II T6, Ex II 2G/D Ex e ia IIC T6, T5 IP66 T80 °C, T95 °C (PTB02ATEX 1014)
Marking acc. to GB	Ex e II T5/T6, Ex e[ia] IIC T5/T6, Ex ia IIC T5/T6 (NEPSI GB)
Marking acc. to IECEx	Ex e ia IIC T6, Ex dem ia/ib IIC T6, T5, T4 Ex tD A21 IP66 T80 °C, T95 °C, T130 °C (IECEX BKI 08.0004)
Marking acc. to UL	cULus to UL 50/C22.2 no.94-M91 types 3S, 4, 4X

Ex-Cell (XLH) Range Enclosure-General Arrangement



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Ex-Cell Enclosure Technical Data

CCH Part Number		XLH 231513	XLH 262615	XLH 302015	XLH 303015	XLH 403015	
Dimensions Overall, mm	(Height x Width	229 x 152	260 x 260	305 x 203	305 x 305	406 x 305	
	x Depth)	x 127	x 152	x 152	x 152	x 152	
	(Imperial Conversion)	(9" x 6" x 5")	(10.2" x 10.2" x 6")	(12" x 8" x 6")	(12" x 12" x 6")	(16" x 12" x 6")	
Fixing Centres, mm	Vertical	152	157	203	203	267	
	Horizontal	208	316	259	361	361	
Material Thickness, mm	Body	1.2	1.2	1.2	1.2	1.2	
	Door	1.2	1.2	1.2	1.2	1.2	
Weight (Empty)	kg	2.35 kg	2.8 kg	3.4 kg	4.6 kg	5.7 kg	
Terminal Mounting Rail							
Rail Fixing Centres, mm	Vert	129	160	205	205	306	
	Horz	52	160	103	205	205	
Rail Length, mm	Vert	149	180	225	225	326	
	Horz	72	180	123	225	225	
Available Gland Area, mm							
(with Gland Plates Fitted)	Bottom	108 x 58	214 x 80	156 x 80	261 x 80	261 x 80	
	Left & Right	108 x 58	114 x 80	156 x 80	156 x 80	261 x 80	
Maximum Entry Guide							
(Metric Glands)							
Top & Bottom	M16	6	21	15	26	26	
	M20	2	10	7	13	13	
	M25	2	4	3	5	5	
	M32	1	3	2	4	4	
	M40	0	3	2	3	3	
	M50	0	2	2	3	3	
Left / Right	M63	0	0	0	0	0	
	M16	6	11	15	15	26	
	M20	2	5	7	7	13	
	M25	2	2	3	3	5	
	M32	1	2	2	2	4	
	M40	0	1	2	2	3	
Terminal Content	M50	0	1	2	2	3	
	M63	0	0	0	0	0	
	Terminal Size Orientation in Enclosure						
	2.5 mm ²	VERT	1 x 21	2 x 27	1 x 36	2 x 36	2 x 56
	4 mm ²	VERT	1 x 17	2 x 23	1 x 30	2 x 30	2 x 47
	6 mm ²	VERT	1 x 13	1 x 17	1 x 23	2 x 23	2 x 35
10 mm ²	VERT	1 x 10	1 x 13	1 x 18	2 x 18	2 x 28	
16 mm ²	VERT	1 x 9	1 x 11	1 x 15	2 x 15	2 x 23	

Extended Definition of Part No.

Ex-Cell 316LSS-1/4 turn lock	XLH S1 XXYYZZ0	Ex-Cell 316LSS-bolt fastening	XLH S1 XXYYZZ0- B
Ex-Cell 304SS-1/4 turn lock	XLH S2 XXYYZZ0	Ex-Cell 304SS-bolt fastening	XLH S2 XXYYZZ0- B
Ex-Cell with 1pc gland plate	XLH S1 XXYYZZ1	Ex-Cell with painting-bolt fastening	XLH PS 1XXYYZZ0- B
Ex-Cell with 3pcs gland plates	XLH S1 XXYYZZ3	Ex-Cell-padlock hasp	XLH S1 XXYYZZ0- HASP

Ex-Cell Steel Enclosures

XLH 404015	XLH 405015	XLH 504015	XLH 505015	XLH 604015	XLH 605015	XLH 606015
406 x 406	406 x 508	508 x 406	508 x 508	610 x 406	610 x 508	610 x 610
x 152	x 152	x 152	x 152	x 152	x 152	x 152
(16" x 16" x 6")	(16" x 20" x 6")	(20" x 16" x 6")	(20" x 20" x 6")	(24" x 16" x 6")	(24" x 20" x 6")	(24" x 24" x 6")
267	267	354	354	445	445	445
462	564	462	564	462	564	666
1.2	1.2	1.2	1.2	1.2	1.2	1.2
1.5	1.5	1.5	1.5	1.5	1.5	1.5
7.1 kg	8.5 kg	8.5 kg	10.2 kg	9.9 kg	11.8 kg	13.7 kg
306	306	408	408	510	510	510
306	408	306	408	306	408	510
326	326	428	428	530	530	530
326	428	326	428	326	428	530
337 x 80	464 x 80	337 x 80	464 x 80	337 x 80	464 x 80	562 x 80
261 x 80	261 x 80	337 x 80	337 x 80	464 x 80	464 x 80	464 x 80
35	48	35	48	35	48	59
17	24	17	24	17	24	29
7	10	7	10	7	10	12
6	8	6	8	6	8	10
5	7	5	7	5	7	8
4	6	4	6	4	6	7
0	0	0	0	0	0	0
26	26	35	35	48	48	48
13	13	17	17	24	24	24
5	5	7	7	10	10	10
4	4	6	6	8	8	8
3	3	5	5	7	7	7
3	3	4	4	6	6	6
0	0	0	0	0	0	0
3 x 56	4 x 56	3 x 77	4 x 77	3 x 97	4 x 97	6 x 97
3 x 47	4 x 47	3 x 64	4 x 64	3 x 81	4 x 81	6 x 81
3 x 35	4 x 35	3 x 48	4 x 48	3 x 61	4 x 61	6 x 61
3 x 28	4 x 28	3 x 38	4 x 38	3 x 49	4 x 49	6 x 49
3 x 23	4 x 23	3 x 32	4 x 32	3 x 40	4 x 40	6 x 40

NOTES: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
2. This information is for guidance purposes only. Eaton's Crouse-Hinds Business reserves the right to make any necessary changes without notice.

Ex-Cell Steel Enclosures

Ex-Cell Enclosure Technical Data

CCH Part Number		XLH 303020	XLH 403020	XLH 404020	XLH 405020	XLH 504020	XLH 505020	
Dimensions Overall, mm	(Height x Width	306 x 306	406 x 305	406 x 406	406 x 508	508 x 406	508 x 508	
	x Depth)	x 203	x 203	x 203	x 203	x 203	x 203	
	(Imperial Conversion)	(12" x 12" x 8")	(16" x 12" x 8")	(16" x 16" x 8")	(16" x 20" x 8")	(20" x 16" x 8")	(20" x 20" x 8")	
Fixing Centres, mm	Vertical	203	267	267	267	354	354	
	Horizontal	361	361	462	564	462	564	
Material Thickness, mm	Body	1.2	1.2	1.2	1.2	1.2	1.2	
	Door	1.2	1.2	1.5	1.5	1.5	1.5	
Weight (Empty)	kg	5.8 kg	6.6 kg	8.1 kg	9.7 kg	9.7 kg	11.4 kg	
Terminal Mounting Rail								
Rail Fixing Centres, mm	Vert	206	306	306	306	408	408	
	Horz	206	205	306	408	306	408	
Rail Length, mm	Vert	226	326	326	326	428	428	
	Horz	226	225	326	428	326	428	
Available Glanding Area, mm								
(with Gland Plates Fitted)	Bottom	261 x 124	261 x 124	334 x 124	460 x 124	334 x 124	460 x 124	
	Left & Right	214 x 124 (L)	261 x 124	261 x 124	261 x 124	334 x 124	334 x 124	
		261 x 124 (R)						
Maximum Entry Guide								
(Metric Glands)	M16	34	34	44	62	44	62	
	M20	18	18	26	35	26	35	
	M25	15	15	21	29	21	29	
	Top & Bottom	M32	8	8	11	15	11	15
		M40	6	6	9	13	9	13
		M50	3	3	4	5	4	5
Left / Right	M63	2	2	3	4	3	4	
	M16	28 (L) / 34 (R)	34	34	34	44	44	
	M20	15 (L) / 18 (R)	18	18	18	26	26	
	M25	12 (L) / 15 (R)	15	15	15	21	21	
	M32	6 (L) / 8 (R)	8	8	8	11	11	
	M40	5 (L) / 6 (R)	6	6	6	9	9	
Terminal Content	M50	2 (L) / 3 (R)	3	3	3	4	4	
	M63	2 (L) / 2 (R)	2	2	2	3	3	
	Terminal Size Orientation in Enclosure							
2.5 mm ²	Vert	2 x 36	2 x 56	3 x 56	4 x 56	3 x 77	4 x 77	
4 mm ²	Vert	2 x 30	2 x 47	3 x 47	4 x 47	3 x 64	4 x 64	
6 mm ²	Vert	2 x 23	2 x 35	3 x 35	4 x 35	3 x 48	4 x 48	
10 mm ²	Vert	2 x 18	2 x 28	3 x 28	4 x 28	3 x 38	4 x 38	
16 mm ²	Vert	2 x 15	2 x 23	3 x 23	4 x 23	3 x 32	4 x 32	

Extended Definition of Part No.

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Ex-Cell 304SS-1/4 turn lock	XLH S2 XXYYZZ0	Ex-Cell 304SS-bolt fastening	XLH S2 XXYYZZ0- B
Ex-Cell with 1pc gland plate	XLH S1 XXYYZZ1	Ex-Cell with painting-bolt fastening	XLH PS 1XXYYZZ0- B
Ex-Cell with 3pcs gland plates	XLH S1 XXYYZZ3	Ex-Cell-padlock hasp	XLH S1 XXYYZZ0- HASP

Ex-Cell Steel Enclosures

XLH 506020	XLH 604020	XLH 605020	XLH 606020	XLH 607620	XLH 765020	XLH 766020	XLH 767620
508 x 610	610 x 406	610 x 508	610 x 610	610 x 762	762 x 508	762 x 610	762 x 762
x 203	x 203	x 203	x 203	x 203	x 203	x 203	x 203
(20" x 24" x 8")	(24" x 16" x 8")	(24" x 20" x 8")	(24" x 24" x 8")	(24" x 30" x 8")	(30" x 20" x 8")	(30" x 24" x 8")	(30" x 30" x 8")
354	445	445	445	445	508	508	508
666	462	564	666	818	564	666	818
1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
13.2 kg	11.2 kg	13.2 kg	15.3 kg	18.3 kg	15.9 kg	18.3 kg	21.9 kg
408	510	510	510	510	662	662	662
510	306	408	510	662	408	510	662
428	530	530	530	530	682	682	682
530	326	428	530	682	428	530	682
562 x 124	334 x 124	460 x 124	562 x 124	714 x 124	460 x 124	562 x 124	714 x 124
334 x 124	460 x 124	460 x 124	460 x 124	460 x 124	562 x 124	562 x 124	562 x 124
78	44	62	78	100	62	78	100
44	26	35	44	56	35	44	56
36	21	29	36	47	29	36	47
19	11	15	19	24	15	19	24
16	9	13	16	20	13	16	20
7	4	5	7	9	5	7	9
5	3	4	5	7	4	5	7
44	62	62	62	62	78	78	78
26	35	35	35	35	44	44	44
21	29	29	29	29	36	36	36
11	15	15	15	15	19	19	19
9	13	13	13	13	16	16	16
4	5	5	5	5	7	7	7
3	4	4	4	4	5	5	5
6 x 77	3 x 97	4 x 97	6 x 97	7 x 97	4 x 128	6 x 128	7 x 128
6 x 64	3 x 81	4 x 81	6 x 81	7 x 81	4 x 106	6 x 106	7 x 106
6 x 48	3 x 61	4 x 61	6 x 61	7 x 61	4 x 80	6 x 80	7 x 80
6 x 38	3 x 49	4 x 49	6 x 49	7 x 49	4 x 64	6 x 64	7 x 64
6 x 32	3 x 40	4 x 40	6 x 40	7 x 40	4 x 53	6 x 53	7 x 53

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