

EX - TERMINAL ENCLOSURES

Stainless Steel Version for Zone 1, 2, 21 and 22
Ex-Cell

2 The Ex-Cell enclosure range is an ATEX certified enclosure / termination solution for category 2 (Zone1) application with an ingress protection of IP66. Ex-Cell is available in a comprehensive range of sizes, each with the facility for various configuration possibilities for a multitude of applications. Using the highest quality materials, some unique design benefits and precision manufacturing, the Ex-Cell range is the benchmark in enclosure for both instrumentation and electrical applications.

The Ex-Cell product line is designed and ATEX certified for hazardous areas, UL-approved for heavy industrial applications and are predominantly used in the petrochemical, pharmaceutical, food process and utilities market sectors. As a result of this, our enclosures have the inherent benefits of a high degree of ingress protection (IP) to environmental characteristics such as ingress of water and dust. The ingress protection (IP) of the complete product line is IP66 (water & dust) along with an impact resistance of a minimum of 7 Nm, making them ideal for wash-down and heavy duty applications.

The Ex-Cell-I series is made for instrumentation with easy access central locking system and hinged cover.

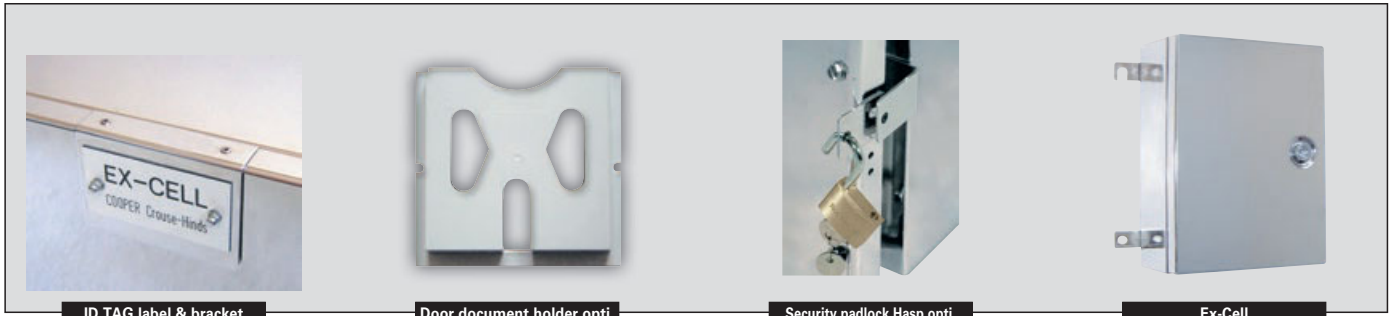
The 1/4 turn embossed latch or bolt down fastening provides rapid means of achieving high integrity ingress protection (IP) of 66 environmental seal for reliable, rapid environmental protection.

There is an option for up to 3 gland plates (3 mm thick) on each side with possible combinations of 0, 1, 3 gland plates available. All units are sealed to IP66 by a high integrity chloroprene gasket and secured by rapid fixing "Hytork" fixing bolts.

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 minimise gasket path contamination.

- **Stainless steel 316 L options and 304**
- **Safety standard IP66**
- **Hinges and central locking device for easy access**
- **Extended ambient temperatures up to +60 °C on request**
- **External and internal earthing bolts**





Technical data

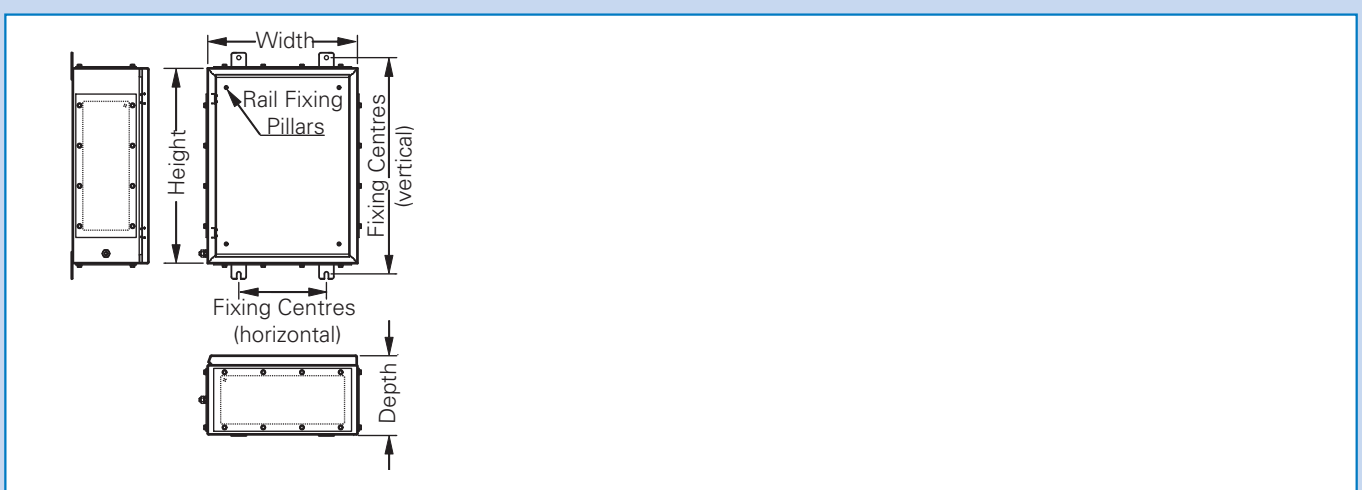
Type Ex-Cell

Marking accd. to 94/9/EC	⊕ II 2 G Ex e II / ⊕ II 2 D Ex tD A21 IP66
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	PTB 02 ATEX 1021 U
Application temperature	-20 °C to +40 °C -55 °C to +55 °C (option: closed cell expanded Silicone gasket)
Rated voltage	up to 750 V ¹⁾
Rated current	up to 500 A ¹⁾
Connecting terminals	up to 240 mm ² ¹⁾
Protection class	I
Degree of protection accd. to EN 60529	IP66
Cable glands/gland plates/enclosure drilling	up to 4 side optional gland plate combination with entries to meet requirements
Type of mounting	4 x 3 mm welded lugs with Ø 11 mm holes/slots, vertical or horizontal
Enclosure material	Stainless steel 316 L or 304 electro chemically polished or sheet steel polyester powder coated (RAL 7032)
Material thickness	1.2 mm (body), 1.5 mm (door)
Components mounting	4 x stand of pillars Ø 9 mm, 25 mm height, thread M6 x 10, for rail or mounting plate
Enclosure earth	M10 external and internal brass earth stud assembly
Gasket material	PUR, Chloroprene gasket (option), closed cell expanded Silicone gasket (option)

¹⁾ depending on type of terminal and Ex-components used

cUL_{Us} Typen 3S, 4, 4 x approval, Germanischer Lloyd available on request.

Dimension drawing



Ex-e/Ex-i terminal box



Fastening



Bolt fastening

Ordering details Ex-Cell up to 2 x 56 terminals

316L SS-90° Fastening Size	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
23/15/13	229x152x127	152x208	2.35	129	52	149	72	1x21	1x17	1x13	1x10	1x 9
26/26/15	260x260x152	170x316	2.8	160	160	180	180	2x27	2x23	1x17	1x13	1x11
30/20/15	305x203x152	203x259	3.4	205	103	225	123	1x36	1x30	1x23	1x18	1x15
30/30/15	305x305x152	203x361	4.6	205	205	225	225	2x36	2x30	2x23	2x18	2x15
30/30/20	305x305x203	203x361	5.8	205	205	225	225	2x36	2x30	2x23	2x18	2x15
40/30/15	406x305x152	267x361	5.7	306	205	326	225	2x56	2x47	2x35	2x28	2x23
40/30/20	406x305x203	267x361	6.6	306	205	326	225	2x56	2x47	2x35	2x28	2x23

316L SS -90° Fastening Size	Available glanding area			Max. entry guide (metric)							Order No. ³⁾
	Top & bottom	left	right	Top & bottom / left / right							
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
23/15/13	108x 58	108x 58	108x 58	6/6/6	2/2/2	2/2/2	1/1/1	-	-	-	XLHS12315130
26/26/15	214x 80	114x 80	114x 80	21/11/11	10/5/5	4/2/2	3/2/2	3/1/1	2/1/1	-	XLHS12626150
30/20/15	156x 80	156x 80	156x 80	15/15/15	7/7/7	3/3/3	2/2/2	2/2/2	2/2/2	-	XLHS13020150
30/30/15	261x 80	156x 80	156x 80	26/15/15	13/7/7	5/3/3	4/2/2	3/2/2	3/2/2	-	XLHS13030150
30/30/20	261x124	214x124	261x124	34/28/34	18/15/18	15/12/15	8/6/8	6/5/6	3/2/3	2/2/2	XLHS13030200
40/30/15	261x 80	261x 80	261x 80	26/26/26	13/13/13	5/5/5	4/4/4	3/3/3	3/3/3	-	XLHS14030150
40/30/20	261x124	261x124	261x124	34/34/34	18/18/18	15/15/15	8/8/8	6/6/6	3/3/3	2/2/2	XLHS14030200

Options			
with 1 gland plate	XLH S1 XXYYZZ 1	with 3 gland plate	XLH S1 XXYYZZ 3
Ex-Cell 316L SS - bolt fastening	XLH S1 XXYYZZ0- B	Ex-Cell 304 SS - 1/4 Fastening	XLH S2 XXYYZZ 0
Ex-Cell 304 SS - bolt fastening	XLH S2 XXYYZZ0- B	Ex-Cell Painted - 1/4 Fastening	XLH PS XXYYZZ 0
Ex-Cell Painted - bolt fastening	XLH PS XXYYZZ0- B	Permanent Padlock HASP Facility (Factory Fitted ONLY)	XLH NN XXYYZZ0- HASP

Type	Order No.
Example	
30/20/15 with 3 gland plate, painted with bolt fastening and Permanent Padlock HASP Facility	XLHPS 3020153-B-HASP

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

2. Dimension drawing see page 2.2.45

3. Refer to „OPTIONS“ for ordering key



Ex-Cell 40/50/15

2

Ordering details Ex-Cell up to 3 x 77 terminals

316L SS-90° Fastening Size	Dimensions ²⁾ H x W x D in mm	Rail fixing centres ²⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
40/40/15	406x406x152	267x462	7.1	306	306	326	326	3x56	3x47	3x35	3x28	3x23
40/40/20	406x406x203	267x462	8.1	306	306	326	326	3x56	3x47	3x35	3x28	3x23
40/50/15	406x508x152	267x564	8.5	306	408	326	428	4x56	4x47	4x35	4x28	4x23
40/50/20	406x508x203	267x564	9.7	306	408	326	428	4x56	4x47	4x35	4x28	4x23
50/40/15	508x406x152	354x462	8.5	408	306	428	326	3x77	3x64	3x48	3x38	3x32
50/40/20	508x406x203	354x462	9.7	408	306	428	326	3x77	3x64	3x48	3x38	3x32

316L SS - 90° Fastening Size	Available glanding area			Max. entry guide (metric)						Order No. ³⁾	
	Top & bottom	left	right	Top & bottom / left / right							
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
40/40/15	337x 80	261x 80	261x 80	35/26/26	17/13/13	7/5/5	6/4/4	5/3/3	4/3/3	-	XLHS14040150
40/40/20	334x124	261x124	261x124	44/34/34	26/18/18	21/15/15	11/8/8	9/6/6	4/3/3	3/2/2	XLHS14040200
40/50/15	464x 80	261x 80	261x 80	48/26/26	24/13/13	10/5/5	8/4/4	7/3/3	6/3/3	-	XLHS14050150
40/50/20	460x124	261x124	261x124	62/34/34	35/18/18	29/15/15	15/8/8	13/6/6	5/3/3	4/2/2	XLHS14050200
50/40/15	337x 80	337x 80	337x 80	35/35/35	17/17/17	7/7/7	6/6/6	5/5/5	4/4/4	-	XLHS15040150
50/40/20	334x124	334x124	334x124	44/44/44	26/26/26	21/21/21	11/11/11	9/9/9	4/4/4	3/3/3	XLHS15040200

Options			
with 1 gland plate	XLH S1 XXYZZ 1	with 3 gland plate	XLH S1 XXYZZ 3
Ex-Cell 316L SS - bolt fastening	XLH S1 XXYZZ0- B	Ex-Cell 304 SS - 1/4 Fastening	XLH S2 XXYZZ 0
Ex-Cell 304 SS - bolt fastening	XLH S2 XXYZZ0- B	Ex-Cell Painted - 1/4 Fastening	XLH PS XXYZZ 0
Ex-Cell Painted - bolt fastening	XLH PS XXYZZ0- B	Permanent Padlock HASP Facility (Factory Fitted ONLY)	XLH NN XXYZZ0- HASP

Type	Order No.
Example	
40/50/20 with 1 gland plates, 316L SS with bolt fastening and Permanent Padlock HASP Facility	XLHS14050201-B-HASP

- Note:** 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
 2. Dimension drawing see page 2.2.45
 3. Refer to „OPTIONS“ for ordering key

Ex-e/Ex-i terminal box



Ex-Cell

Ordering details Ex-Cell up to 4 x 97 terminals

316L SS-90° Fastening Size	Dimensions ²⁾ H x W x D in mm	Rail fixing centres ²⁾		Weight in kg (empty enclosure)	Terminal rail				Terminal content				
		vertical x	horizontal		Rail fixing centres		Rail length		Row orientation vertical				
					vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content													
50/50/15	508x508x152	354x564		10.2	408	408	428	428	4x77	4x64	4x 48	4x38	4x32
50/50/20	508x508x203	354x564		11.4	408	408	428	428	4x77	4x64	4x 48	4x38	4x32
50/60/20	508x610x203	354x666		13.2	408	510	428	530	6x77	6x64	6x 48	6x38	6x32
60/40/15	610x406x152	445x462		9.9	510	306	530	326	3x97	3x81	3x61	3x49	3x40
60/40/20	610x406x203	445x462		11.2	510	306	530	326	3x97	3x81	3x61	3x49	3x40
60/50/15	610x508x152	445x564		11.8	510	408	530	428	4x97	4x81	4x61	4x49	4x40
60/50/20	610x508x203	445x564		13.2	510	408	530	428	4x97	4x81	4x61	4x49	4x40

316L SS - 90° Fastening Size	Available glanding area			Max. entry guide (metric)						Order No. ³⁾	
	Top & bottom	left	right	Top & bottom / left / right							
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
50/50/15	464x 80	337x 80	337x 80	48/35/35	24/17/17	10/7/7	8/6/6	7/5/5	6/4/4	-	XLHS15050150
50/50/20	460x124	334x124	334x124	62/44/44	35/26/26	29/21/21	15/11/11	13/9/9	5/4/4	4/3/3	XLHS15050200
50/60/20	562x124	334x124	334x124	78/44/44	44/26/26	36/21/21	19/11/11	16/9/9	7/4/4	5/3/3	XLHS15060200
60/40/15	337x 80	464x 80	464x 80	35/48/48	17/24/24	7/10/10	6/8/8	5/7/7	4/6/6	-	XLHS16040150
60/40/20	334x124	460x124	460x124	44/62/62	26/35/35	21/29/29	11/15/15	9/13/13	4/5/5	3/4/4	XLHS16040200
60/50/15	464x 80	464x 80	464x 80	48/48/48	24/24/24	10/10/10	8/8/8	7/7/7	6/6/6	-	XLHS16050150
60/50/20	460x124	460x124	460x124	62/62/62	35/35/35	29/29/29	15/15/15	13/13/13	5/5/5	4/4/4	XLHS16050200

Options

with 1 gland plate	XLH S1 XXYYZZ 1	with 3 gland plate	XLH S1 XXYYZZ 3
Ex-Cell 316L SS - bolt fastening	XLH S1 XXYYZZ0- B	Ex-Cell 304 SS - 1/4 Fastening	XLH S2 XXYYZZ 0
Ex-Cell 304 SS - bolt fastening	XLH S2 XXYYZZ0- B	Ex-Cell Painted - 1/4 Fastening	XLH PS XXYYZZ 0
Ex-Cell Painted - bolt fastening	XLH PS XXYYZZ0- B	Permanent Padlock HASP Facility (Factory Fitted ONLY)	XLH NN XXYYZZ0- HASP

Type	Order No.
Example	
60/50/20 with 3 gland plate, painted 1/4 turn lock and Permanent Padlock HASP Facility	XLHPS6050203-HASP

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

2. Dimension drawing see page 2.2.45

3. Refer to „OPTIONS“ for ordering key



Ex-Cell

2

Ordering details Ex-Cell up to 7 x 128 terminals

316L SS-90° Fastening Size	Dimensions ²⁾ H x W x D in mm	Rail fixing centres ²⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
60/60/15	610x610x152	445x666	13.7	510	510	530	530	6x	97	6x	81	6x40
60/60/20	610x610x203	445x666	15.3	510	510	530	530	6x	97	6x	81	6x40
60/76/20	610x762x203	445x818	18.3	510	662	530	682	7x	97	7x	81	7x40
76/50/20	762x508x203	508x564	15.9	662	408	682	428	4x	128	4x	106	4x53
76/60/20	762x610x203	508x666	18.3	662	510	682	530	6x	128	6x	106	6x53
76/76/20	762x762x203	508x818	21.9	662	662	682	682	7x	128	7x	106	7x53

316L SS - 90° Fastening Size	Available glanding area			Max. entry guide (metric)						Order No. ³⁾	
	Top & bottom	left	right	Top & bottom / left / right							
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
60/60/15	562x 80	464x 80	464x 80	59/48/48	29/24/24	12/10/10	10/8/8	8/7/7	7/6/6	-	XLHS16060150
60/60/20	562x124	460x124	460x124	78/62/62	44/35/35	36/29/29	19/15/15	16/13/13	7/5/5	5/4/4	XLHS16060200
60/76/20	714x124	460x124	460x124	100/62/62	56/35/35	47/29/29	24/15/15	20/13/13	9/5/5	7/4/4	XLHS16076200
76/50/20	460x124	562x124	562x124	62/78/78	35/44/44	29/36/36	15/19/19	13/16/16	5/7/7	4/5/5	XLHS17650200
76/60/20	562x124	562x124	562x124	78/78/78	44/44/44	36/36/36	19/19/19	16/16/16	7/7/7	5/5/5	XLHS17660200
76/76/20	714x124	562x124	562x124	100/78/78	56/44/44	47/36/36	24/19/19	20/16/16	9/7/7	7/5/5	XLHS17676200

Options			
with 1 gland plate	XLH S1 XXYZZ 1	with 3 gland plate	XLH S1 XXYZZ 3
Ex-Cell 316L SS - bolt fastening	XLH S1 XXYZZ0- B	Ex-Cell 304 SS - 1/4 Fastening	XLH S2 XXYZZ 0
Ex-Cell 304 SS - bolt fastening	XLH S2 XXYZZ0- B	Ex-Cell Painted - 1/4 Fastening	XLH PS XXYZZ 0
Ex-Cell Painted - bolt fastening	XLH PS XXYZZ0- B	Permanent Padlock HASP Facility (Factory Fitted ONLY)	XLH PS XXYZZ0- HASP

Type	Order No.
Example	
60/76/20 with 3 gland plate, 316 SS with bolt fastening and Permanent Padlock HASP Facility	XLHS16076203-B-HASP

- Note:** 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
 2. Dimension drawing see page 2.2.45
 3. Refer to „OPTIONS“ for ordering key