

Large, globally certified product range

Our explosion protection enclosing solutions are comprehensive and widely configurable. Reliable in use and convenient to install, their overall quality provides cost efficiency, and most of all, increased safety of your employees and equipment every day.

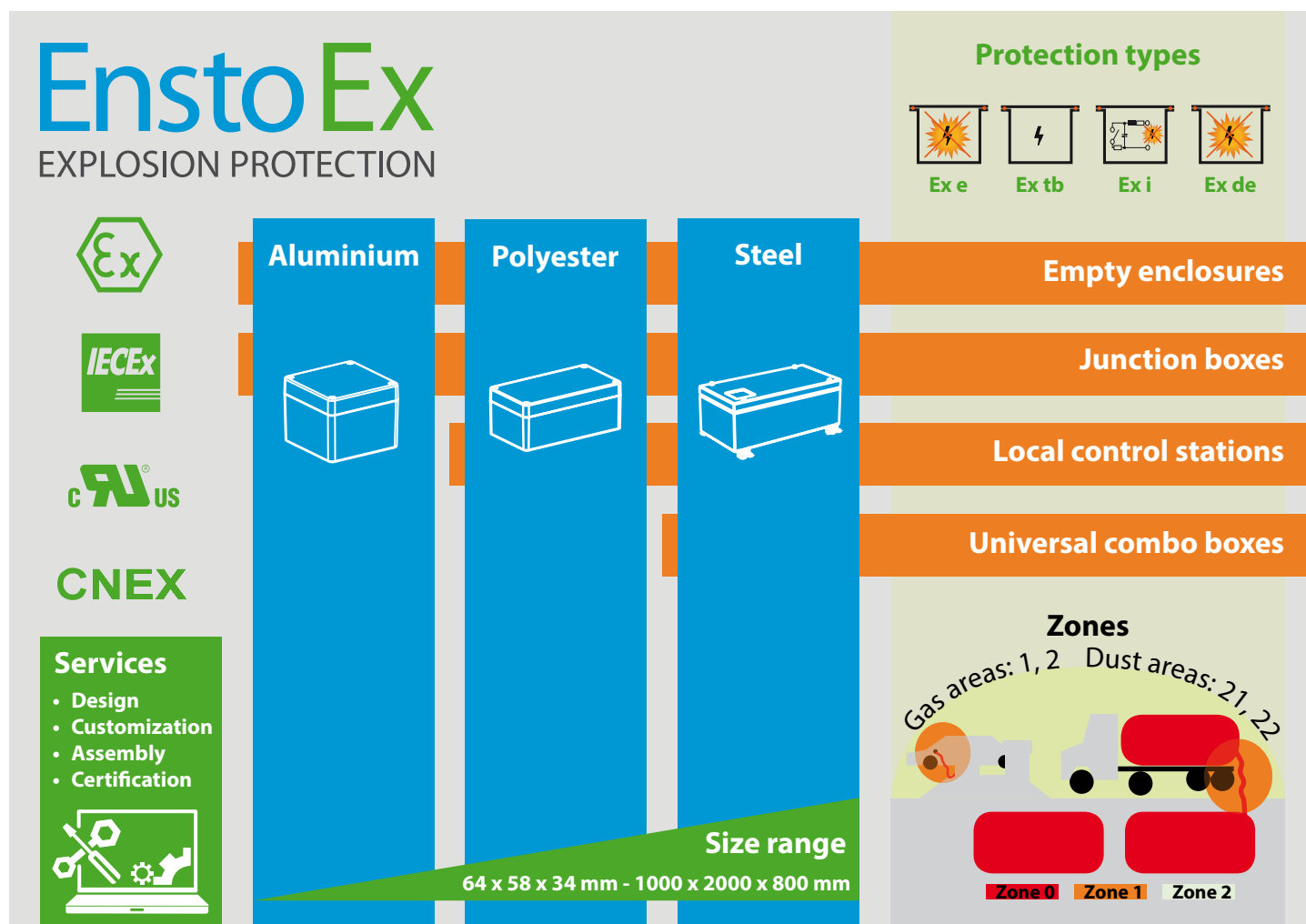
Our explosion protection offering now comprises Ex enclosing solutions and various related industrial components. They are designed and tested to meet the requirements of industries and applications where explosive atmospheres may be present.

The enclosures are available in painted mild steel, stainless steel (AISI 304 and AISI 316L), die-cast aluminium and polyester and they

are widely certified to meet the requirements of global markets. They hold ATEX, China Ex, IECEx, Russian and UL certifications.

Our Ex enclosures are suitable for installations in:

- Zones 1 and 2 in gas areas
- Zones 21 and 22 in dust areas.



Material comparison



Our product range comprises Ex enclosures made of steel, aluminium and polyester. Below are some advantages and disadvantages of the different materials.

Steel

Polyester painted mild steel

- + High impact resistance
- + High degree of protection
- + Easy to customize; customer-specific dimensions possible
- Corrosion risk

Stainless steel AISI 304

- + High impact resistance
- + High degree of protection
- + Excellent corrosion resistance
- + Excellent resistance to UV radiation
- + Suitable for outdoor use; a rain shelter is recommended
- + Suitable for industrial environments
- + Excellent suitability e.g. to the food industry
- + Customer-specific dimensions possible
- More expensive than painted mild steel

Stainless steel AISI 316L

- In addition to the advantages of AISI 304
- + Excellent corrosion resistance
 - + Excellent suitability e.g. to offshore industry
 - More expensive than stainless steel AISI 304



Polyester (GRP)

Carbon loaded glass-reinforced polyester (black)

- + Excellent temperature resistance
- + Good corrosion resistance
- + Good resistance against solvents
- + Excellent suitability e.g. to chemical industries
- Unrecyclable material



Die-cast aluminium

Die-cast powder-coated aluminium

- + Lighter than steel
- + High impact resistance
- + Good resistance against solvents
- + Good corrosion resistance
- + Wide temperature resistance range
- Machining may be problematic



UL recognized enclosures, steel

AEx e and AEx tb components (NEC 500/505)



We offer world-class stainless steel increased safety and dust proof solutions designed especially for the oil and gas offshore market needs in the USA and Canada. This exclusive enclosure range makes it multi-usable for global and local OEMs for installation in both Division and Zone classified hazardous locations. The range includes cabinets certified as AEx e, AEx tb (USA) and Ex e (Canada) components.

Our UL recognized enclosures in brief:

- Certified to meet the demanding North American requirements
- Suitable for Zones 1 and 2 in gas group IIC
- Suitable for Zones 21 and 22 in dust group IIIC
- Designed for the harsh environment of the Arctic Ocean
- Tested also for extremely high temperatures
- Scalable dimensioning
- Different options for:
 - Material
 - Cover fastening
 - Surface treatment.

Contents of the product package:

- Enclosure base
- Cover
- Captive cover screws with washers or a quick lock
- An M6 nut and a washer for earthing
- Models with flange openings include cover plates, bolts and washers.

Hazardous area classifications

	EN	IEC	NEC 505	NEC 500
Gas	Ex e Zone 0	Ex e Ga	AEx e Class I, Zone 0	Class I, Div. 1
	Ex e Zone 1	Ex e Gb	AEx e Class I, Zone 1	
	Ex e Zone 2	Ex e Gc	AEx e Class I, Zone 2	Class I, Div. 2

Variations

Version:	Cover screws Tight hinges and cover screws on the opposite side Tight hinges and locks Cover screws and hinges enabling free movement of the cover
Material:	Stainless steel, AISI 304 (1.5 mm, 0.05 inch) Stainless steel, AISI 316L (1.5 mm, 0.05 inch) Painted mild steel (1.5 mm, 0.05 inch)
Surface treatment:	Natural Brushed Polyester painted (custom colors available)
Dimensions:	Width: 150 – 1,000 mm (5.9 – 59.1 inch) Height: 150 – 1,500 mm (5.9 – 39.4 inch) Depth: 90 – 600 mm (3.5 – 23.6 inch)
Grounding:	Internal grounding bolt as standard External grounding bolts (M6)
Mounting:	Welded fastening lugs, horizontal/vertical

Technical information

Degree of protection:	IP66/67 or IP66
Service temperature:	- 50 to +160 °C / +100 °C / +85 °C (- 58 to +320 °F / +212 °F / +185 °F)

Conformity

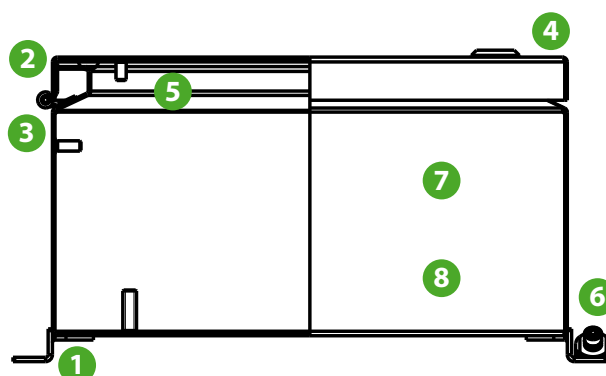
File No.:	E365430
USR approvals:	Class I, Zone 1, AEx e IIC Gb Class II, Zone 21 AEx tb IIIC Db Class II, Div. 2, Groups F, G Class III, Div. 2
CNR approvals:	Class I, Zone 1, Ex e IIC Gb Class II, Div. 2, Groups F, G Class III, Div. 2
Equivalency markings:	Class I, Div. 2, Groups A, B, C, D

Main features:

1. Welded mounting brackets
2. Left-side hinges
3. Removable hinge pin
4. Bolted doors or quarter turn latch locking
5. Special closed-cell gasket
6. Internal/External grounding connection and mounting system for back plate or rail system.

Optional features:

7. Up to 4 flanges
 - Optional flanges can be made with 1/10 inch plates or 6/10 inch plates with bended sides
8. Customized size.



Ensto Ex cabinets with quick locks,

Product code	Description	Service temperature	Dimensions (mm)			GTIN-13
			Width	Height	Depth	
Brushed AISI 316L cabinets, IP66						
X3ABP203016	Zinc DIN-3 lock	-55 °C to +85 °C	200	300	160	6438100156350
X3ABP303016	Zinc DIN-3 lock	-55 °C to +85 °C	300	300	160	6438100156367
X3ABP304016	Zinc DIN-3 lock	-55 °C to +85 °C	300	400	160	6438100156374
X3ABP304020	Zinc DIN-3 lock	-55 °C to +85 °C	300	400	200	6438100156381
X3ABP404016	Zinc DIN-3 lock	-55 °C to +85 °C	400	400	160	6438100156398
X3ABP404020	Zinc DIN-3 lock	-55 °C to +85 °C	400	400	200	6438100156404
X3ABP406020	Zinc DIN-3 lock	-55 °C to +85 °C	400	600	200	6438100156411
X3ABP506030	Zinc DIN-3 lock	-55 °C to +85 °C	500	600	300	6438100156428
X3ABP608030	Zinc DIN-3 lock	-55 °C to +85 °C	600	800	300	6438100156435
X3ABP8010030	Zinc DIN-3 lock	-55 °C to +85 °C	800	1000	300	6438100156442
Brushed AISI 316L cabinets, IP66/67						
X3ABP203016S	AISI 316 DIN-3 lock	-55 °C to +85 °C	200	300	160	6438100156459
X3ABP303016S	AISI 316 DIN-3 lock	-55 °C to +85 °C	300	300	160	6438100156466
X3ABP304016S	AISI 316 DIN-3 lock	-55 °C to +85 °C	300	400	160	6438100156473
X3ABP304020S	AISI 316 DIN-3 lock	-55 °C to +85 °C	300	400	200	6438100156480
X3ABP404016S	AISI 316 DIN-3 lock	-55 °C to +85 °C	400	400	160	6438100156497
X3ABP404020S	AISI 316 DIN-3 lock	-55 °C to +85 °C	400	400	200	6438100156503
X3ABP406020S	AISI 316 DIN-3 lock	-55 °C to +85 °C	400	600	200	6438100156510
X3ABP506030S	AISI 316 DIN-3 lock	-55 °C to +85 °C	500	600	300	6438100156527
X3ABP608030S	AISI 316 DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	600	800	300	6438100156534
X3ABP8010030S	AISI 316 DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	800	1000	300	6438100156541
Brushed AISI 316L cabinets with two doors, IP66						
X3ABP10010030D	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	1000	1000	300	6438100156558
X3ABP12010030D	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	1200	1000	300	6438100156565
X3ABP15010030D	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	1500	1000	300	6438100156572



Universal combo boxes,

Order code	Product code	Service temperature	Drilling area (mm)	Minimum installation space (mm)	Dimensions (mm)			GTIN-13
					Width	Height	Depth	
UCB2010	X3ABP302316C	-55 °C to +85 °C	170 x 65	200 x 95	300	200+25*	160	6438100156213
UCB2015	X3ABP302320C	-55 °C to +85 °C	170 x 110	200 x 140	300	200+25*	200	6438100156220
UCB2510	X3ABP352816C	-55 °C to +85 °C	210 x 65	240 x 95	350	250+25*	160	6438100156237
UCB2515	X3ABP352820C	-55 °C to +85 °C	210 x 110	240 x 140	350	250+25*	200	6438100156244
UCB3010	X3ABP402816C	-55 °C to +85 °C	270 x 65	300 x 95	400	250+25*	160	6438100156251
UCB3015	X3ABP402820C	-55 °C to +85 °C	270 x 110	300 x 140	400	250+25*	200	6438100156268
UCB3313	X3ABP434318C	-55 °C to +85 °C	300 x 95	330 x 130	430	400+25*	180	6438100156275
UCB3319	X3ABP434325C	-55 °C to +85 °C	300 x 160	330 x 190	430	400+25*	250	6438100156282
UCB4013	X3ABP504318C	-55 °C to +85 °C	370 x 95	400 x 130	500	400+25*	180	6438100156299
UCB4019	X3ABP504325C	-55 °C to +85 °C	370 x 160	400 x 190	500	400+25*	250	6438100156305



* Note: The height of an enclosure door is 25 mm lower than the height of the base due to the collar structure of an Ex d enclosure.

UL recognized enclosures with plain sides,

Product code	Description	Service temperature (°C)	Service temperature (°F)	Dimensions (mm)			Dimensions (inch)			GTIN-13
				Width	Height	Depth	Width	Height	Depth	
X1ABP151509.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	150	150	90	5.9	5.9	3.5	6438100166656
X1ABP152010.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	150	200	100	5.9	7.9	3.9	6438100166663
X1ABP202010.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	200	200	100	7.9	7.9	3.9	6438100166670
X1ABP203012.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	200	300	120	7.9	11.8	4.7	6438100166687
X1ABP204015.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	200	400	150	7.9	15.7	5.9	6438100166694
X1ABP303015.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	300	300	150	11.8	11.8	5.9	6438100166700
X1ABP403015.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	400	300	150	15.7	11.8	5.9	6438100166717
X1ABP404020.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	400	400	200	15.7	15.7	7.9	6438100166724
X1ABP406020.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	400	600	200	15.7	23.6	7.9	6438100166731
X1ABP508020.U	Brushed	-55 °C to +160 °C	-67 °F to +320 °F	500	800	200	19.7	31.5	7.9	6438100166748



Product code	Description	Service temperature (°C)	Service temperature (°F)	Dimensions (mm)			Dimensions (inch)			GTIN-13
				Width	Height	Depth	Width	Height	Depth	
Brushed AISI 316L cabinets, IP66										
X3ABP203016S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	200	300	160	7.9	11.8	6.3	6438100166755
X3ABP303016S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	300	300	160	11.8	11.8	6.3	6438100166762
X3ABP304016S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	300	400	160	11.8	15.7	6.3	6438100166779
X3ABP304020S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	300	400	200	11.8	15.7	7.9	6438100166786
X3ABP404016S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	400	400	160	15.7	15.7	6.3	6438100166793
X3ABP404020S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	400	400	200	15.7	15.7	7.9	6438100166809
X3ABP406020S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	400	600	200	15.7	23.6	7.9	6438100166816
X3ABP556030S.U	Zinc DIN-3 lock	-55 °C to +85 °C	-67 °F to +185 °F	550	600	300	19.7	23.6	11.8	6438100166823
X3ABP608030S.U	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	-67 °F to +185 °F	600	800	300	23.6	31.5	11.8	6438100166830
X3ABP8010030S.U	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	-67 °F to +185 °F	800	1000	300	31.5	39.4	11.8	6438100166847
Brushed AISI 316L cabinets with two doors, IP66										
X3ABP10010030D.U	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	-67 °F to +185 °F	1000	1000	300	39.4	39.4	11.8	6438100166854
X3ABP12010030D.U	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	-67 °F to +185 °F	1200	1000	300	47.2	39.4	11.8	6438100166861
X3ABP15510030D.U	Zinc DIN-3 lock, hi-strength mounting lugs	-55 °C to +85 °C	-67 °F to +185 °F	1550	1000	300	59.1	39.4	11.8	6438100166878

Junction boxes, steel

Standard sizes

We have created some standard sizes that are readily available for fast and efficient delivery. Customer-specific sizes also available.



Instructions for ordering junction boxes

1.

Select the suitable empty enclosure (custom sizes also available)



Empty enclosures

Enclosure type	Description	Dimensions (mm)			GTIN-13
		Width	Height	Depth	
II 2 GD Ex e, Ex tb, Ex i junction box					
X1ABP01JB	Empty X1ABP151509 enclosure	150	150	90	-
X1ABP02JB	Empty X1ABP152010 enclosure	150	200	100	-
X1ABP03JB	Empty X1ABP202010 enclosure	200	200	100	-
X1ABP04JB	Empty X1ABP203012 enclosure	200	300	120	-
X1ABP05JB	Empty X1ABP204015 enclosure	200	400	150	-
X1ABP06JB	Empty X1ABP303015 enclosure	300	300	150	-
X1ABP07JB	Empty X1ABP403015 enclosure	400	300	150	-
X1ABP08JB	Empty X1ABP404020 enclosure	400	400	200	-
X1ABP09JB	Empty X1ABP406020 enclosure	400	600	200	-
X1ABP10JB	Empty X1ABP508020 enclosure	500	800	200	-