

Lighting: Portable Lighting
HLD Series: Handlamp – Flameproof

LIGHTING



Compliance Data:

ATEX - IEC:



Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IEC	CE
Ex d IIC	T5-T4-T3	Ex tD A21	T110°C to T138°C	IP66

Electrical Data:

Voltage	Incandescent Lamp	Halogen Lamp	Frequency	
12-24 V	75 W Maximum	55 W - 70 W	50/60 Hz Vac/Vdc	

Operating Temperature:

-20°C to +55°C

Lighting: Portable Lighting

HLD Series: Handlamp – Flameproof

Zone 1 & 2 - 21 & 22

Ex II 2 GD

ATEX / IEC

IP66

Applications:

- To provide maintenance staff with task specific portable lighting in Zone 1 hazardous locations.
- Ideal for persons requiring task specific portable lighting in refineries, oil and gas process and chemical plants.

Features:

- To be supplied with SELV (Service Extra Low Voltage) 24 Vac or 30 Vdc.
- 75 W maximum for incandescent lamp.
- 70 W maximum for halogen lamp.
- E27 lamp holder for incandescent lamp (not supplied).
- PK22S lamp holder for H3 lamp (supplied).
- Connection via two terminals 1 x 2.5 mm².
- One M20 threaded entry.
- Protective guard.
- Fitted with suspension hook.

Standard Material of Fixtures:

- Gray painted aluminum alloy body and bezel.
- Sealed borosilicate lamp glass.
- White zinc plated steel protective guard.

Ordering Information:

Power and Voltage	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number
75 W max. for incandescent lamp	2.8	13	HLD7502B	094792
55 W halogen 12 Vac/Vdc*	2.8	13	HLD5501B	–
70 W halogen 24Vac/Vdc*	2.8	13	HLD7002B	–

(*) Lamp supplied

Compliances:

Hazardous Area	Gas	Dust
Certified Type	BLd	
Zones	1-2	21-22
Conforming to ATEX 94/9/CE	CE 0081 Ex II 2 G	CE 0081 Ex II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex td A21
Symbol of Protection IEC		
T rating	T3 to T5 (see table 1)	N.A.
Surface Temperature	N.A.	T110°C to T138°C (see table 1)
Ambient Temperature	-20°C to +55°C	
CE Declaration of Conformity	50240	
ATEX Certificate	LCIE 02 ATEX 6164	
IEC Certificate	LCIE Ex 02.015	
Other Certificates	–	
Index of Protection (solid and liquid)	IP66	
Impact resistance (shock)	–	
Internal Volume	< 2 dm ³ (2 liters)	

Table 1:

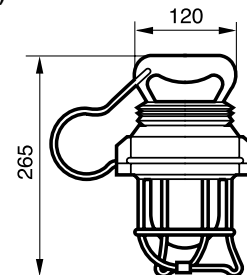
		Gas				Dust
		Lamp glass facing up		Lamp glass facing down		
Type	Ambient T°	Ta = +40°C	Ta = +55°C	Ta = +40°C	Ta = +55°C	Surface Temperature
40 W Incandescent	T rating	T5	T4	T5	T4	110°C
	Cable T°	56°C	71°C	66°C	81°C	N.A.
60 W Incandescent	T Rating	T4	T4	T4	T4	130°C
	Cable T°	61°C	76°C	73°C	88°C	N.A.
75 W Incandescent	T Rating	T4	T3	T4	T4	138°C
	Cable T°	67°C	82°C	79°C	94°C	N.A.
55 W Halogen	T Rating	T4	T4	T4	T4	122°C
	Cable T°	67°C	82°C	79°C	94°C	N.A.
70 W Halogen	T Rating	T4	T4	T4	T4	122°C
	Cable T°	67°C	82°C	79°C	94°C	N.A.

Cable temperature less than +80°C, no need for high temperature cable.

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
Product Standards	EN / IEC 60598-1
EMC Standards	–
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

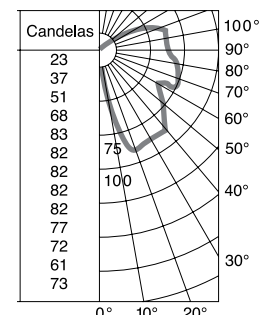
Dimensions (mm):



Photometric Data:

Polar curves for a 1000 lm output, according to NF C 71-120

Luminaire symbol according to NF C 71-121



Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety



CSPe Type – Small Version



CAe Type – Non-Hinged Version



CAe Type – Hinged Versions

Compliance Data:

ATEX - IECEx:



Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IECEx	CE
Ex e II Ex ia IIC; Ex ib IIC Ex de IIC; Ex demb IIC	T6 to T2	Ex tD A21	T75°C to T295°C	IP66 – IK10

Operating Temperatures:

-55°C to +60°C (CSPe Type)

-40°C to +55°C (CAe Type)

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

IP66 – IK10

Applications:

- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for wet or corrosive atmospheres.
- Petroleum, chemical, refineries and other industrial process facilities.
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently. Food processing, dairy, brewing and other commercial facilities.

JBEP Series:

- Terminal junction boxes for electrical low voltage and instrumentation connections in hazardous areas.
- Refer to technical data to define permitted number of terminal blocks and cable entries on selected junction boxes.

ECEP Series:

- Enclosure for distribution and control applications. Can be modified at our manufacturing facility to house a large range of components; i.e. control units, switches, breakers, transformers, meters, etc.

Features:

- Static resistant black fiberglass reinforced polyester enclosure.
- Available in a wide range of sizes.
- Operating temperature -55°C to +60°C (CSPe) and -40°C to +55°C (CAe).
- Stainless steel hardware.
- Hinges standard on all sizes above 400 x 300 mm.

Hinged enclosures:

- Reversible door opening 180°.
- Door with double bar lock.
- Key locking facility.
- Protective flange at top and bottom.

Standard Materials of Fixtures:

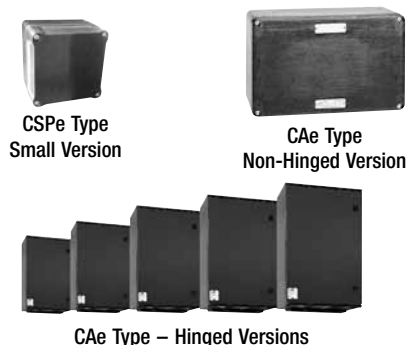
- Static resistant carbon filled fiberglass reinforced polyester (FRP) enclosures.
- Stainless steel hardware.

Accessories:

- Mounting pan.
- Rail mounting.
- Padlocking device.
- Inside pocket for documents.
- Refer to technical data to define permitted number and size of terminals and cable entries.

Options:

- Removable gland plates.
- Nameplates.
- Consult factory for custom drilling and assembly requirements.
- Empty enclosure with Ex “U” component marking for re-certification by notified body for CAe type.



Catalog Number Logic:

JBEP	XX	XX	XX	X	X
Series	Dimensions	Dimensions	Dimensions	Gland Plates (1):	Options:
ATEX / IEC Certified:	Length (mm):	Width (mm):	Depth (mm):	0 = None	(options must be listed alphabetically)
EC = Enclosure & Controls	12 = 120	12 = 120	09 = 91	1 = One Bottom	E = Earth Continuity Brass Plate
JB = Junction Box	17 = 170	20 = 200	15 = 150	2 = One Top and Bottom	M = Mounting Pan
E = Increased Safety	21 = 215	30 = 300	20 = 200	3 = Two Sides and Bottom	U = Component Certification “U”
I = Intrinsic Safety	23 = 230	40 = 400	25 = 200	4 = All Sides	# = Customized at Factory
P = Polyester	32 = 320	60 = 600	30 = 300		
	40 = 400	80 = 800			
	42 = 425				
	50 = 500				
	57 = 575				
	60 = 600				
	80 = 800				
	10 = 1000				

(1) Gland plate for hinged enclosures only.

#: 6 Digit number will be assigned at time of order placement.

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22

Ex II 2 GD

ATEX / IECEx

IP66 – IK10

Ordering Information:

JBEP Series Exe II Small Polyester Junction Boxes

For use with Ex certified terminals only (not supplied).

Mounting rails supplied.

Yellow laminated plastic label with black lettering.



Type	Dimensions L x W x D (mm)	Rail Length (mm)	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number
CSPe1	120 x 120 x 91	62	0.8	4	JBEP 121209 0	–
CSPe2	170 x 120 x 91	112	1	4	JBEP 171209 0	–
CSPe3	230 x 120 x 91	172	1.2	4	JBEP 231209 0	–

Exe II Non-Hinged Junction Boxes

For use with Ex terminals only (not supplied).

Mounting rails to be ordered separately.

Yellow laminated plastic label with black lettering.



Type	Dimensions L x W x D (mm)	Rail Length (mm)	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number
CAe1	215 x 200 x 150	191	3	13	JBEP 212015 0	095953
CAe2	320 x 200 x 150	293	3.8	23	JBEP 322015 0	095954
CAe3	425 x 200 x 150	400	4.9	26	JBEP 422015 0	095955
CAe4	575 x 200 x 150	554	6.2	33	JBEP 572015 0	095956

Exe II Hinged Junction Boxes without Gland Plate

For use with Ex terminals only (not supplied).

Mounting pan and rails to be ordered separately.



Type	Dimensions L x W x D (mm)	Rail Length (mm)	Weight (dm³)	Volume Number	Catalog Number	Old Catalog Number
CAe6	400 x 300 x 206	243	4.4	33	JBEP 403020 0	095957
CAe7	500 x 400 x 206	343	5.3	47	JBEP 504020 0	–
CAe8	610 x 400 x 257	343	7.7	84	JBEP 604025 0	–
CAe10	820 x 610 x 300	543	18.3	190	JBEP 806030 0	096473
CAe11	1020 x 810 x 300	743	23.6	313	JBEP 108030 0	096474

Exe II Hinged Junction Boxes with Bottom Opening for Gland Plate

For use with Ex terminals only (not supplied).

Opening at bottom 114 x 322 mm.

Mounting pan, rails and gland plate to be ordered separately.



Type	Dimensions L x W x D (mm)	Rail Length (mm)	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number
CAe7	500 x 400 x 206	343	5.3	47	JBEP 504020 1	096465
CAe8	610 x 400 x 257	343	7.7	84	JBEP 604025 1	096471

Removable Gland Plate



Description	Size (mm)	Drilling	Weight (kg)	Volume (dm³)	Catalog Number	Old Catalog Number
Gland Plate	114 x 322	Blank	1.4	0.4	JBEPGP400	096485
Gland Plate	114 x 322	Clearance holes for 17 x M20 + 3 x M25	1.4	0.4	JBEPGP400 D12	096486
Gland Plate	130 x 264 (1)	Blank	1.3	0.3	JBEPGP300	096490

(1) To be used with customized enclosure CAe6.

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

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Ordering Information – Continued:

Coupling Flange

Description	Size (mm)	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number
Coupling Flange	114 x 322	1.3	0.2	JBEP CF1	–

ECEP Series:

Polyester Enclosure for Distribution and Control Applications

Designed to house a large range of components; i.e. control units, switches, breakers, transformers, meters, etc.

Must be customized at our workshop. Order using the following catalog number:

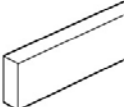
Replace “JB” with “EC” and add # as last digit for customized enclosure.

Example: JBEP 403020 0 becomes ECEP 403020 0 #. At time of order, # will be replaced by a 6 digit number.

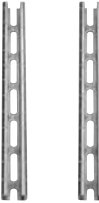
Mounting Accessories:

Enclosure Type	Rail Length (mm)	Catalog Number	Old Catalog Number	Pack
 Zinc Plated Symmetrical Steel Rail For direct fixing. Set of two 60 mm height spacers supplied.				
CAe1	191	JBEP DR215	–	1
CAe2	293	JBEP DR320	–	1
CAe3	400	JBEP DR425	–	1
CAe4	554	JBEP DR575	–	1

Description	Catalog Number	Old Catalog Number	Pack
 Insulated Side Support – Set of Two For mounting symmetrical, assymetrical rails and copper bar 12 x 2 mm or 12 x 4 mm. See dimensional data page for more details.			
	096115	–	1

Description	Bar Length (mm)	Catalog Number	Pack
 Copper Bar (12 x 4 mm) Copper bar not perforated for cable clamps.			
	160	097270	1
	200	097271	1
	310	097272	1
	500	097273	1
	690	097274	1
	1070	097275	1

Description	Catalog Number	Pack
 Cable Clamp for Copper Bar (12 x 4 mm) 1.5 mm ² to 4 mm ² capacity. 6 mm ² to 16 mm ² capacity.		
	097203	1
	097204	1

Enclosure Type	Rail Length (mm)	Catalog Number	Old Catalog Number	Pack
 Zinc Plated Steel Uprights – Set of Two “C” profile supplied with hardware.				
CAe6	337	JBEP SR400	096475	1
CAe7	437	JBEP SR500	096476	1
CAe8	537	JBEP SR600	096477	1
CAe10	737	JBEP SR800	096478	1
CAe11	937	JBEP SR100	096479	1

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

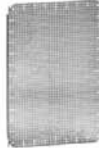
Zone 1 & 2 – 21 & 22

Ex II 2 GD

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Mounting Accessories – Continued:

Enclosure Type	Rail Length (mm)	Catalog Number	Old Catalog Number	Pack	
Zinc Plated Symetrical Steel Rail For fixing onto uprights with clip nut supplied.					
	CAe6	243	JBEP DR300	096481	1
	CAe7 / CAe8	343	JBEP DR400	096482	1
	CAe10	543	JBEP DR600	096483	1
	CAe11	743	JBEP DR800	096484	1
Enclosure Type	Dimensions (mm)		Catalog Number	Pack	
Mounting Pan Perforated mounting pan "Telequick".					
	CAe6	350 x 250	JBEPMP400	096452	1
	CAe7	450 x 350	JBEPMP500	096453	1
	CAe8	550 x 350	JBEPMP600	096454	1
	CAe10	750 x 550	JBEPMP800	096455	1
	CAe11	950 x 750	JBEPMP100	096456	1
Description			Catalog Number	Pack	
Self Adhesive Pocket for Drawings					
	External dimensions: 260 x 165 mm. Internal dimensions: 230 x 130 x 18 mm.		097263	1	
	External dimensions: 340 x 235 mm. Internal dimensions: 310 x 200 x 18 mm.		097264	1	
Padlocking Device					
	Takes 3 safety padlocks shackle dia. 6 mm maximum.		JBEPPL	1	

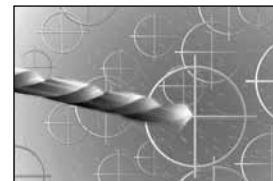
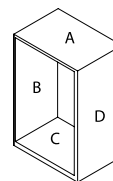
Technical Data:

JBEP Series for Terminal Junction Box Application Only.

The size of junction box needed to meet your requirements can be selected based upon the table show below. We also offer you the possibility to drill and equip using guides G0002 & G0003 available online at www.egsatx.com

- 1) Define maximum cable entries according to number of modules available per side.

Cable Entry Metric Thread	Number of Modules
M20	1
M25	1
M32	1
M40	2
M50	3



Type	Dimensions (mm)			Number of Modules			Allowable Max.
	Length	Width	Depth	B/D	A/C	A'/C' (1)	Size
CSPe1	120	120	91	2	2	—	M25
CSPe2	170	120	91	3	2	—	M32
CSPe3	230	120	91	4	2	—	M32
CAe1	215	200	150	11	8	—	M50
CAe2	320	200	150	18	8	—	M50
CAe3	425	200	150	26	8	—	M50
CAe4	575	200	150	38	8	—	M50
CAe6	400	300	206	18	18	—	M50
CAe7	500	400	206	24	10	10	M50
CAe8	610	400	257	48	10	10	M75
CAe10	820	610	300	72	54	—	M100
CAe11	1020	810	300	96	78	—	M100

(1) Enclosure with removable gland plate

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22

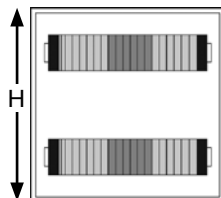
II 2 GD

ATEX / IECEx

IP66 – IK10

Technical Data – Continued:

2) Maximum rail arrangement according to physical dimensions.



		Maximum Quantity of Horizontal Rails Per Quantity						
		Terminal Capacity (mm ²)						
	H (mm)	2.5	4	6	10	16	35	50
CSPe1/2/3	120	1	1	1	1	0	0	0
CAe1/2/3/4	200	1	1	1	1	1	1	0
CAe6	400	3	3	3	2	2	2	1
CAe7	500	4	4	3	3	3	2	1
CAe8	610	4	4	4	4	3	3	2
CAe10	820	6	6	5	5	5	4	3
CAe11	1020	8	8	7	7	6	5	3

3) Define maximum terminal block quantity according to power dissipation:

Junction boxes used for instrumentation applications have very low current levels, therefore there is no risk of overheating whatever the number of terminals inside the box.

For applications other than instrumentation, the following tables allow you to define your junction box depending on the number of terminals and the maximum authorized current being carried with feed-through terminals.

For single feed terminals using cross connection, please consult factory for calculation.

Small Junction Boxes

T rating: T6		Type		
		CSPe1	CSPe2	CSPe3
		120 x 120 x 91 mm	170 x 120 x 91 mm	230 x 120 x 91 mm
2.5 mm ²	Qty. I Max.	12 15 A	22 13 A	33 12 A
4 mm ²	Qty. I Max.	10 20 A	18 19 A	28 16 A
6 mm ²	Qty. I Max.	7 32 A	14 27 A	21 24 A
10 mm ²	Qty. I Max.	4 50 A	6 50 A	8 50 A

Non-Hinged Junction Boxes

T Rating: T6 @ Ta +40°C T5 @ Ta +55°C		Type			
		CAe1	CAe2	CAe3	CAe4
		215 x 200 x 150 mm	320 x 200 x 150 mm	425 x 200 x 150 mm	575 x 200 x 150 mm
2.5 mm ²	Qty. I Max.	20 16 A	21 16 A	23 16 A	29 14 A
4 mm ²	Qty. I Max.	19 20 A	20 20 A	23 20 A	33 16 A
6 mm ²	Qty. I Max.	12 32 A	13 32 A	14 32 A	18 28 A
10 mm ²	Qty. I Max.	10 40 A	11 40 A	18 32 A	22 28 A
16 mm ²	Qty. I Max.	8 28 A	10 27 A	13 25 A	15 26 A
25 mm ²	Qty. I Max.	8 67 A	8 73 A	10 69 A	10 70 A
35 mm ²	Qty. I Max.	8 79 A	8 86 A	10 80 A	10 80 A

For other terminal block configurations please consult our guide G0002 available online at www.egsatx.com

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IECEx

IP66 – IK10

Technical Data – Continued:

Hinged Junction Boxes

T Rating: T6 @ Ta +40°C T5 @ Ta +55°C		Type				
		CAe6	CAe7	CAe8	CAe10	CAe11
		400 x 300 x 206 mm	500 x 400 x 206 mm	610 x 400 x 257 mm	820 x 610 x 300 mm	1020 x 810 x 300 mm
35 mm ²	Qty. I Max.	12 100 A	16 100 A	16 100 A		
50 mm ²	Qty. I Max.	8 125 A	12 125 A	16 125 A		
70 mm ²	Qty. I Max.	8 160 A	10 160 A	12 160 A		
95 mm ²	Qty. I Max.	8 200 A	10 200 A	12 200 A		
120 mm ²	Qty. I Max.		8 250 A	8 250 A	12 200 A	16 150 A
150 mm ²	Qty. I Max.			6 250 A	9 250 A	12 190 A
185 mm ²	Qty. I Max.				8 300 A	10 240 A

For other terminal block configurations please consult our guide G0003 available online at www.egsatx.com

Compliances:

Hazardous Area	Gas	Dust
Certification Type	CSPe	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 II 2 G	CE 0081 II 2 D
Symbol of Protection ATEX	Ex e II Ex ia IIC Ex ib IIC	Ex tD A21
Symbol of Protection IEC	Ex de IIC Ex demb IIC	
T Rating	T6	NA
Surface Temperature	NA	T75°C
Ambient Temperature	-55°C to +60°C	
CE Declaration of Conformity	50284	
ATEX Certificate	LCIE 09 ATEX 3032X	
IECEx Certificate	IECEx LCI 09.0016X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	
Impact resistance (shock)	IK10	

Hazardous Area	Gas	Dust
Certification Type	CAe	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 II 2 G	CE 0081 II 2 D
Symbol of Protection ATEX	Ex e II Ex ia IIC Ex ib IIC	Ex tD A21
Symbol of Protection IEC	Ex de IIC Ex demb IIC	
T Rating	T6 to T2	NA
Surface Temperature	NA	T80°C to T295°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50235	
ATEX Certificate	LCIE 02 ATEX 6248X	
IECEx Certificate	IECEx LCI 04.0016X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	
Impact resistance (shock)	IK10	

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22
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 ATEX / IECEx
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Compliances – Continued:

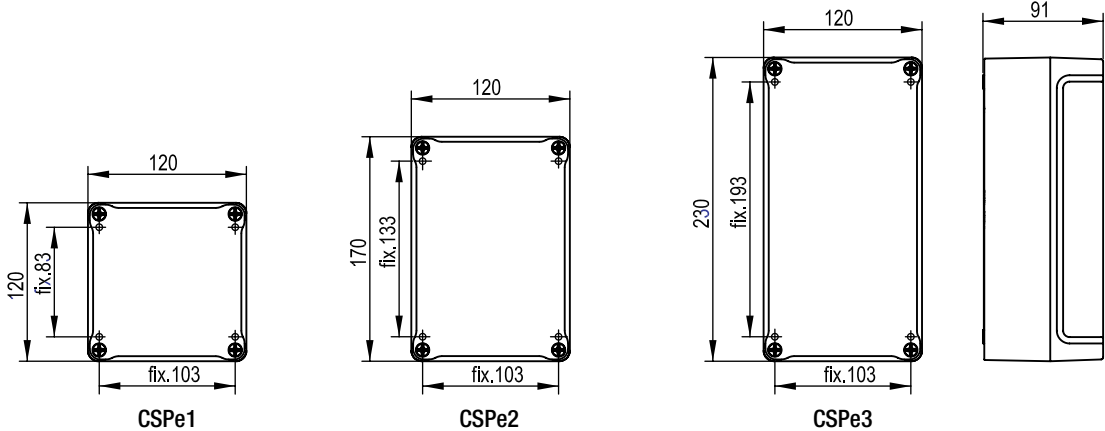
Hazardous Area	Gas	Dust
Certification Type	CAe U	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	0081II 2 G	0081II2 D
Symbol of Protection ATEX	Ex e II	Ex tD A21
Symbol of Protection IEC		
T Rating	NA	NA
Surface Temperature	NA	NA
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	5C241	
ATEX Certificate	LCIE 09 ATEX 3036 U	
IEC Certificate	LCIE Ex 09.002 U	
Other Certifications	–	
Index of Protection (solid and liquid)	IP66	
Impact resistance (shock)	IK10	

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 60079-7; 60079-11; 61241-0; 61241-1; 61241-11
Product Standards	–
EMC Standards	–
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

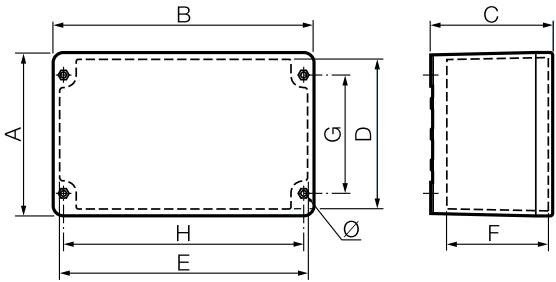
Dimensions (mm):

CSPe1 to CSPe3



Fixing details for above boxes: four holes Ø 5

CAe1 to CAe4



Type	External			Internal			Fixings			
	A	B	C	D	E	F	G	H	Thick	Ø
CAe1	200	215	150	185	200	125	146	189	6	6.5
CAe2	200	320	150	185	305	125	146	294	6	6.5
CAe3	200	425	150	185	410	125	146	399	6	6.5
CAe4	200	575	150	185	560	125	146	548	6	6.5

Junction Boxes & Enclosures

JBEP and ECEP Series: Undrilled Fiberglass Reinforced Polyester Enclosures – Increased Safety

Zone 1 & 2 – 21 & 22

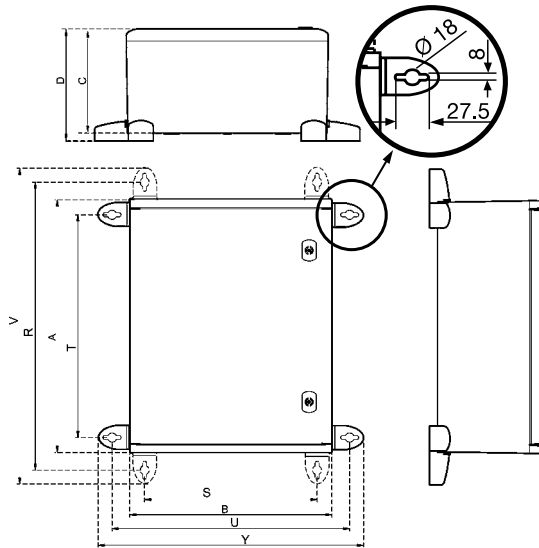
II 2 GD

ATEX / IECEx

IP66 – IK10

Dimensions (mm) – Continued:

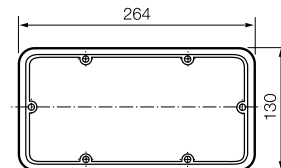
CAe6 to CAe11



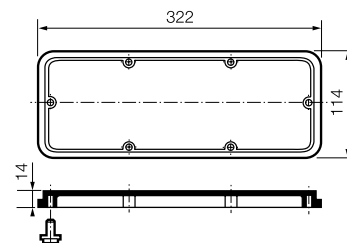
Type	External dimensions (mm)				Fixing (mm)					
					with horizontal lug			with vertical lug		
	A	B	C	D	T	U	Y	R	S	V
CAe6	400	300	206	222	341	370	425	470	241	525
CAe7	500	400	206	222	441	470	525	570	341	625
CAe8	610	400	257	273	551	470	525	680	341	735
CAe10	820	610	300	316	758	677	732	887	548	942
CAe11	1020	810	300	316	958	877	932	1087	748	1142

Gland Plates:

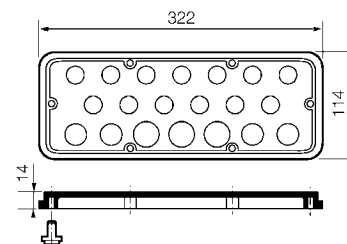
JBEPGP300



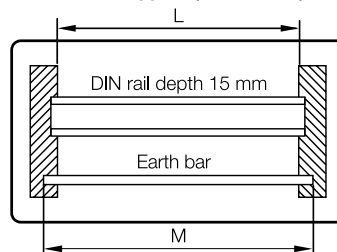
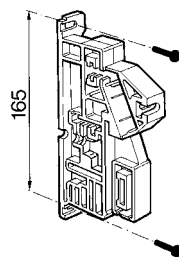
JBEPGP400



JBEPGP400D12

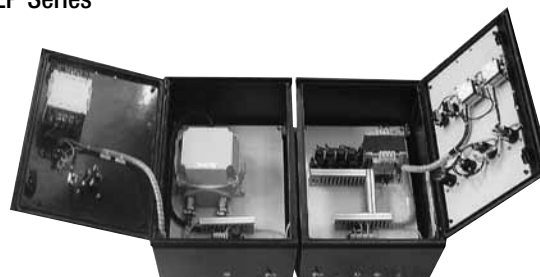


Insulated Side Support (Rail Holder) 096115



Type	Equipment Capacity	
	L(mm)	M (mm)
CAe1	105	129
CAe2	206	234
CAe3	310	339
CAe4	315	345

Example of Customized Enclosure ECEP Series



A.T.X.[®] PRE Series 16 Amp Plugs and Sockets

Increased Safety

Zone 1 and 2 - 21 and 22
 Ⓢ II 2 GD
 ATEX / IECEx
 IP66 - IK09/10

Applications

- Plugs and receptacles are used with portable or stationery electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zone 1 and 2 and 21 and 22 of the oil and gas industry; such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms

Features

- Plug and socket system is designed with a safe disconnect mechanism to insure maximum hazardous location protection:
 - The contact separation is in a flameproof chamber
 - The automatic electrical disconnection of each phase is contained in a second flameproof chamber
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The receptacles are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous IEC 309 sockets.
- Operating temperature of -40 °F/-40 °C to +131 °F/+55 °C

Standard Materials

- Wall Socket for 2P - 2P+E - 3P: high impact resistance polycarbonate
- Wall Socket for 3P+E - 3P+N+E: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

Certifications and Compliances

- Certification Type PCX, PCX/EN
- Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 G
 - ATEX/IEC Protection: Ex de IIC
 - T6 for Ta ≤ +104 °C/+40 °C and T5 for Ta ≤ +131 °F/+55 °C
 - Ambient Temperature: -40 °F/-40 °C ≤ Ta ≤ +131 °F/+55 °C
- Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
 - ATEX/IEC Protection: Ex tD A21
 - Surface Temperature: T154 °F/68 °C
 - Ambient Temperature: -40 °F/-40 °C ≤ Ta ≤ +131 °F/+55 °C
- CE Declaration of Conformity: 50228, 5C214
- ATEX Certificate: LCIE 02 ATEX 6068, LCIE 02 ATEX 0001U
- IECEx Certificate: IECEx LCI 04.0014, IECEx LCI 04.0012
- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Impact Resistance (shock): IK10 (Polyester) and IK09 (Polyamide)
- Ex Standards: EN/IEC 60079-0; 60079-1, 60079-7; 61241-0, 61241-1
- Product Standards: EN/IEC 60309-1, 60309-2
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)



Plug



Wall Mounting Socket



Mobile Socket



Flush Socket

Technical Data

Breaking Capacity	
AC 3	4 kW – 220 V
	4.3 kW – 240 V
	7.5 kW – 380 V
	8.2 kW – 415 V
ICC	20 kA

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

A.T.X.[®] PRE Series 16 Amp Plugs and Sockets

Increased Safety

Zone 1 and 2 - 21 and 22

II 2 GD

ATEX / IECEx

IP66 - IK09/10



Wall Mounting Socket

- Three M20 threaded entries (one on the top and two on the bottom).
- Supplied with one M20 cable gland (Ø 0.26 to Ø 0.57" / Ø 6.5 to Ø 14.5 mm) and two M20 blanking plugs.
- Terminal capacity 0.003 x 0.006 in² / 2 x 4 mm². Can be through-wired.
- Fitted with three linked earth terminals.



Plug

- One PG16 integrated cable gland (Ø 0.26 to Ø 0.57" / Ø 6.5 to Ø 14.5 mm).
- Terminal capacity 0.004 in² / 2.5 mm².



Mobile Socket

- One PG16 integrated cable gland (Ø 0.26 to Ø 0.57" / Ø 6.5 to Ø 14.5 mm).
- Terminal capacity 0.003 x 0.006 in² / 2 x 4 mm².



Flush Socket

- Terminal capacity 0.003 x 0.006 in² / 2 x 4 mm².

Catalog Numbering Guide

PRE
Series:
PRE - PRE Series
Zone 1, 2, 21 and 22
ATEX / IEC

2
Pin Configuration:
2 - 2P
3 - 2P+E
4 - 3P+E
5 - 3P+N+E
6 - 3P

16
Amps:
16 - 16A

R
Equipment:
P - Plug
R - Receptacle
(Wall Mounting)
M - Mobile Socket
F - Flush Socket

P
Voltage:
P - 20 - 25 Vac
50/60 Hz
W1 - 20 - 50 Vdc
W - 40 - 50 Vac
50/60 Hz
Y - 100 - 130 Vac
50/60 Hz
B - 200 - 250 Vac
50/60 Hz
R - 380 - 415 Vac
50/60 Hz
N - 480 - 500 Vac
50/60 Hz
G - 50 - 500 Vac 300
to 500 Hz

ELV: Extra Low Voltage

Purple	White	White
20/25 Vac	20/50 Vdc	40/50 Vac

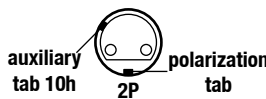
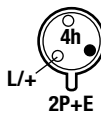
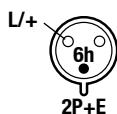
LV: Low Voltage

Yellow	Blue	Red	Black	Green
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac	50/500 Vac (300 to 500 Hz)

A.T.X.[®] PRE Series 16 Amp Extra Low Voltage and Low Voltage Plugs and Sockets

Increased Safety

Zone 1 and 2 - 21 and 22
 II 2 GD
 ATEX / IECEx
 IP66 - IK09/10

Description	Pin Configuration	Weight (lb/kg)	Volume (in³/dm³)	Catalog Number
Extra Low Voltage: ELV				
20/25 Vac 50/60 Hz — Purple				
Wall Socket		1.3/0.6	231.89/3.8	PRE216RP
Plug		0.4/0.2	36.61/0.6	PRE216PP
Mobile Socket		0.9/0.4	79.33/1.3	PRE216MP
Flush Socket		0.4/0.2	79.33/1.3	PRE216FP
Wall Socket		1.3/0.6	231.89/3.8	PRE316RP
Plug		0.4/0.2	36.61/0.6	PRE316PP
Mobile Socket		0.9/0.4	79.33/1.3	PRE316MP
Flush Socket		0.4/0.2	79.33/1.3	PRE316FP
Wall Socket		1.3/0.6	231.89/3.8	PRE616RP
Plug		0.4/0.2	36.61/0.6	PRE616PP
Mobile Socket		0.9/0.4	79.33/1.3	PRE616MP
Flush Socket		0.4/0.2	79.33/1.3	PRE616FP
20/50 Vdc — White				
Wall Socket		1.3/0.6	231.89/3.8	PRE216RW1
Plug		0.4/0.2	36.61/0.6	PRE216PW1
Mobile Socket		0.9/0.4	79.33/1.3	PRE216MW1
Flush Socket		0.4/0.2	79.33/1.3	PRE216FW1
40/50 Vac 50/60 Hz — White				
Wall Socket		1.3/0.6	231.89/3.8	PRE216RW
Plug		0.4/0.2	36.61/0.6	PRE216PW
Mobile Socket		0.9/0.4	79.33/1.3	PRE216MW
Flush Socket		0.4/0.2	79.33/1.3	PRE216FW
Wall Socket		1.3/0.6	231.89/3.8	PRE616RW
Plug		0.4/0.2	36.61/0.6	PRE616PW
Mobile Socket		0.9/0.4	79.33/1.3	PRE616MW
Flush Socket		0.4/0.2	79.33/1.3	PRE616FW
Low Voltage: LV				
100/130 Vac 50/60 Hz — Yellow				
Wall Socket		1.3/0.6	231.89/3.8	PRE316RY
Plug		0.4/0.2	36.61/0.6	PRE316PY
Mobile Socket		0.9/0.4	79.33/1.3	PRE316MY
Flush Socket		0.4/0.2	79.33/1.3	PRE316FY
200/250 Vac 50/60 Hz — Blue				
Wall Socket		1.3/0.6	231.89/3.8	PRE316RB
Plug		0.4/0.2	36.61/0.6	PRE316PB
Mobile Socket		0.9/0.4	79.33/1.3	PRE316MB
Flush Socket		0.4/0.2	79.33/1.3	PRE316FB

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

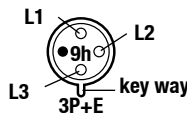
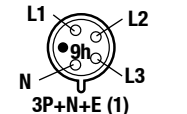
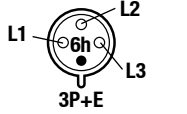
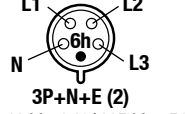
A.T.X.[®] PRE Series 16 Amp Low Voltage Plugs and Sockets and Accessories

Increased Safety

Zone 1 and 2 - 21 and 22
 II 2 GD
 ATEX / IECEx
 IP66 - IK09/10

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

Description	Pin Configuration	Weight (lb/kg)	Volume (in³/dm³)	Catalog Number
Low Voltage: LV				
200/250 Vac 50/60 Hz — Blue				
Wall Socket		3.3/1.5	286.81/4.7	PRE416RB
Plug		1.3/0.6	361.6/0.6	PRE416PB
Mobile Socket		1.3/0.6	244.09/4.0	PRE416MB
Flush Socket		0.4/0.2	79.33/1.3	PRE416FB
Wall Socket		3.5/1.6	286.81/4.7	PRE516RB
Plug		0.7/0.3	79.33/1.3	PRE516PB
Mobile Socket		1.3/0.6	244.09/4.0	PRE516MB
Flush Socket		(1) 120/208 V - 144/250 Vac 50/60 Hz 0.4/0.2	79.33/1.3	PRE516FB
380/415 Vac 50/60 Hz — Red				
Wall Socket		3.3/1.5	286.81/4.7	PRE416RR
Plug		0.4/0.2	361.6/0.6	PRE416PR
Mobile Socket		1.3/0.6	244.09/4.0	PRE416MR
Flush Socket		0.7/0.3	79.33/1.3	PRE416FR
Wall Socket		3.5/1.6	286.81/4.7	PRE516RR
Plug		0.7/0.3	79.33/1.3	PRE516PR
Mobile Socket		1.3/0.6	244.09/4.0	PRE516MR
Flush Socket		(2) 200/346 V - 240/415 Vac 50/60 Hz 0.7/0.3	79.33/1.3	PRE516FR
480/500 Vac 50/60 Hz — Black				
Wall Socket		3.3/1.5	286.81/4.7	PRE416RN
Plug		0.4/0.2	361.6/0.6	PRE416PN
Mobile Socket		1.3/0.6	244.09/4.0	PRE416MN
Flush Socket		0.7/0.3	79.33/1.3	PRE416FN
50/500 Vac 300/500 Hz — Green				
Wall Socket		3.5/1.6	286.81/4.7	PRE516RG
Plug		0.4/0.2	361.6/0.6	PRE516PG
Mobile Socket		1.3/0.6	244.09/4.0	PRE516MG
Flush Socket		0.7/0.3	79.33/1.3	PRE516FG

Accessories

Description	Catalog Number
 M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm	PREESTM20
 M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm	PREECAM20

A.T.X.[®] PRE Series 16 Amp Plug and Socket Dimensions

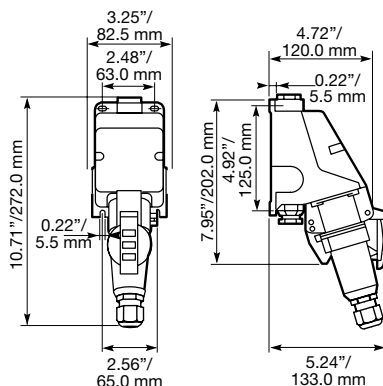
Increased Safety

Zone 1 and 2 - 21 and 22
 II 2 GD
 ATEX / IECEx
 IP66 - IK09/10

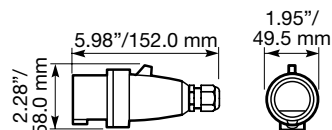
Dimensions

16A — 2P — 2P+E — 3P Versions

Wall Mounting Sockets

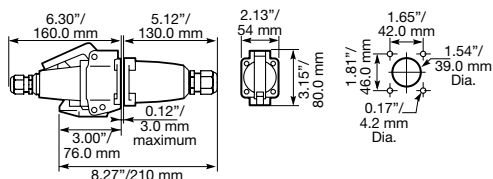


Plugs

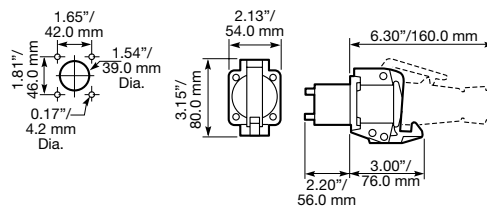


Mobile Sockets

Can be mounted on panel - 0.12"/3.0 mm thickness maximum

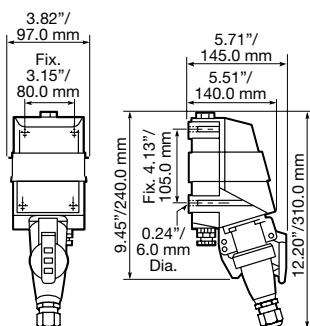


Flush Sockets

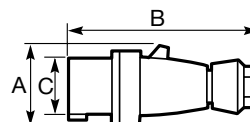


16A — 3P+E — 3P+N+E Versions

Wall Mounting Sockets

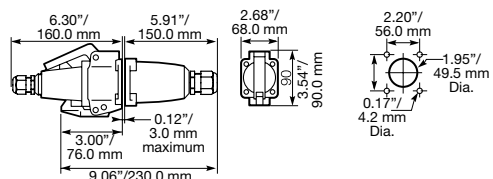


Plugs

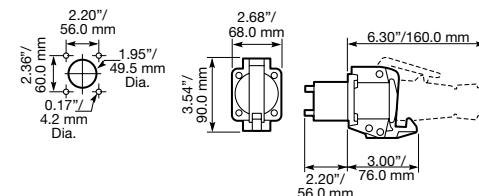


Mobile Sockets

Can be mounted on panel - 0.12"/3.0 mm thickness maximum



Flush Sockets



Dimensions in Inches/Millimeters

	A	B	C
3 P + E	2.60/66.0	6.06/154.0	2.19/55.5
3 P + N + E	2.87/73.0	6.54/166.0	2.44/62.0