

# JBOX Ex e - Medium Voltage Junction Box 7,2/11kV - Octagonal type

**MV Junction Box 7,2/11 kV, built in in octagonal design and Ex e execution**, with increased safety, is designed to prevent generation of arcs, sparks or dangerous temperatures that can trigger an explosion and it's suitable for installation in a mining in the area classified Group I Category M2 and industrial plants with the presence of gas or dust, Group II 2G and 2D.

The octagonal design of 7,2/11kV MV junction box makes this product particularly robust and the external auxiliary box allows to make additional connections (e.g. optical fiber) or to allocate additional auxiliary contacts inside.

- Designed to better respond to severe mechanical stress;
- Manufactured for outdoor or tunnel installations;
- Safe for personnel and operation, with protection from contact with live parts;
- Free-standing and ready for use;
- Customized solution on request.

## Reference Standards

International standard	EN 60079-0 EN 60079-7 EN 60079-30 EN 60079-31 IEC EN 62217-200:2013
Atex Directive	2014/34/EU I M2 Ex eb I Mb, II 2G Ex eb IIC T4 Gb, II2D Ex tb IIIC T135°C Db



## Main Electrical Features

		7,2 kV 3AC	11 kV 3AC
Rated voltage	Ur	7,2 kV	11 kV
Withstand voltage at 50 Hz (1 min)	Ub	20 kV	28/50 kV
Rated impulse voltage	U imp	60 kV	95 kV
Rated frequency	fn	50-60 Hz	50-60 Hz
Main busbar/cables rated current	Ir	630 A	630 A

NOTE: On request, junction boxes may be designed for a higher operating voltage.

# JBOX Ex e - Medium Voltage Junction Box 7,2/11kV - Octagonal type

## Features of Construction

### JBOX Ex e

Voltage (kV)	Length (mm)	Height (mm)	Depth (mm)
7,2	850	480	300
11	950	650	337

Material	Metal sheet steel (AISI 304-316L-316Ti as optional)
Thickness	3 mm
Sealing	EPDM (silicone as optional)
Side box	Outer positioning (optional) for fiber optic terminal strips or terminal strips connection
Accessories (optional)	Anticondensing heater
Incoming cables	Lateral with cable clamp cover/ gland/MCT
Outgoing cables	Lateral with cable clamp cover/ gland/MCT
Accessibility	Front
Anchorage	Wall
Painting	RAL 3020 (other shades on request)



## Service and environmental conditions

External protection degree	Up to IP 66
Opened doors protection degree	IP 00
Type of installation	Outdoor
Maximum ambient temperature	+ 50° C
Minimum ambient temperature	- 50° C
Altitude	< 1000m s.l.m.

# JBOX Ex e - Medium Voltage Junction Box 24/36 kV - Octagonal type

**MV Junction Boxes 24/36kV, octagonal type, built in Ex execution**, is designed to prevent generation of arcs, sparks or dangerous temperatures that can trigger an explosion and it's suitable for installation in a mining in the area classified Group I Category M2 and industrial plants with the presence of gas or dust, Group II 2G and 2D.

- Designed to better respond to severe mechanical stress;
- Manufactured for outdoor or tunnel installations;
- Safe for personnel and operation, with protection from contact with live part;
- Free-standing and ready for use;
- Customized solution on request.

## Reference Standards

International standard	EN 60079-0 EN 60079-7 EN 60079-30 EN 60079-31 IEC EN 62217-200:2013
Atex Directive	2014/34/EU I M2 II 2G II2D Ex tb IIIC T135°C Db



## Main Electrical Features

		24 Kv 3AC	36 Kv 3AC
Rated voltage	Ur	24 kV	36 kV
Withstand voltage at 50 Hz (1 min)	Ub	50 kV	70 kV
Rated impulse voltage	U imp	125 kV	145 kV
Rated frequency	fn	50-60 Hz	50-60 Hz
Main busbar/cables rated current	Ir	630 A	630 A

NOTE: On request, junction boxes may be designed for a higher operating voltage.

# JBOX Ex e - Medium Voltage Junction Box 24/36 kV - Octagonal type

## Features of Construction

### JBOX Ex e

Voltage (kV)	Length (mm)	Height (mm)	Depth (mm)
24	1250	1000	537
36	1500	1300	693

Material	Metal sheet steel (AISI 304-316L-316Ti as optional)
Thickness	3 mm
Sealing	EPDM (silicone as optional)
Side box	Outer positioning (optional) for fiber optic terminal strips or terminal strips connection
Accessories (optional)	Anticondensing heater
Incoming cables	From bottom /cable glands/MCT
Outgoing cables	From bottom /cable glands/MCT
Accessibility	Front
Anchorage	Wall
Painting	RAL 3020 (other shades on request)



## Service and environmental conditions

External protection degree	Up to IP 66
Opened doors protection degree	IP 00
Type of installation	Outdoor
Maximum ambient temperature	+ 50° C
Minimum ambient temperature	- 50° C
Altitude	< 1000m s.l.m.