

FCS-7000 Series junction boxes

The FCS-7000 Series enclosures are manufactured from 409 stainless steel with a RAL7015 painted finish, to provide high levels of corrosion resistance for process environments.

The FCS-75xx Process JB's are suitable for Zone 2 and Zone 1 intrinsically safe (Ex i) and increased safety applications (Ex e).

The junction boxes are available pre-drilled for one segment, having trunk in, trunk out and 4 spur connections; one trunk and 10 or 12 spur connections; or two segments having one trunk and 20 or 24 spur connections.

The wide choice of glands, including stainless steel, nickel-plated brass and plastic, enables a high quality seal with standard or wire armoured cables.

The box incorporates a rain channel that prevents standing water from damaging the one-piece seal; diverting it away from the contents when the door is opened. A 10mm earth stud and a breather are also included as standard.

An adhesive backed, Traffolyte tag label is supplied loose or can be engraved with the tag number and fitted, if details are supplied when ordering.

SPECIFICATION

GENERAL

Materials

409 stainless steel - painted (RAL 7015 grey)
Chloroprene gasket

DIN rail

FCS-7504, FCS-7510, FCS-7512: - one (1) DIN rail
FCS-7520, FCS-7524: - two (2) DIN rails
DIN rail to EN 50022 35 x 7.5 'T' section, mounted vertically
Each rail fitted with two end stops

Breather plug

Provided

External earth connection

M10 threaded stud

Tag label

Traffolyte, adhesive backed - white background - black text

Other

Hinged lid



ENVIRONMENTAL

Operating Temperature

-45°C to +70°C - Steel & nickel plated brass glands
-30°C to +70°C - Plastic glands

Storage Temperature

-45°C to +85°C

Relative Humidity % RH (non-condensing)

5 to 95%

IP rating

IP66 to EN 60529

Impact resistance

7 Nm to EN 50014

Location of Process JB

Safe area, Zone 2, IIC T4 hazardous area or Zone 1, IIC T4 hazardous area for intrinsically safe fieldbus segment.

Note: If used in a hazardous area, the contents must be suitably certified/approved.

APPLICATION EXAMPLES

Model	Max. glands	DIN rail length mm	Megablocks /trunk	No of trunks	Spurs/ trunk	Trunk in	Trunk out	Total spurs used	-ZZ* value	Unused DIN rail length mm
Single trunk applications										
FCS-7504	6	166	2 way	1	2	1	1	2	03	111
			4 way	1	4	1	4	05	86	
			4 way + T	1	4	1	-	4	04	66
FCS-7510	11	166	4 way + 2 way	1	6	1	1	6	07	31
			8 way	1	8	1	1	8	09	36
			8 way + T	1	8	1	-	8	08	16
			10 way (T)	1	10	1	-	10	10	-
FCS-7512	13	212	2 way + 10 way (T)	1	12	1	-	12	12	-
FCS-7520	21	2 x 286	2 x 8 way + T	1	16	1	-	16	16	2 x 136
Double trunk applications										
FCS-7520	21	2 x 286	8 way + T	2	8	1 (2-pair multicore)	-	16	16	2 x 136
			10 way (T)	2	10	1 (2-pair multicore)	-	20	20	2 x 129
FCS-7524	25	2 x 286	2 way + 10 way (T)	2	12	1 (2-pair multicore)	-	24	24	2 x 74

T = separate terminator

(T) = Megablock includes terminator

* see ordering information



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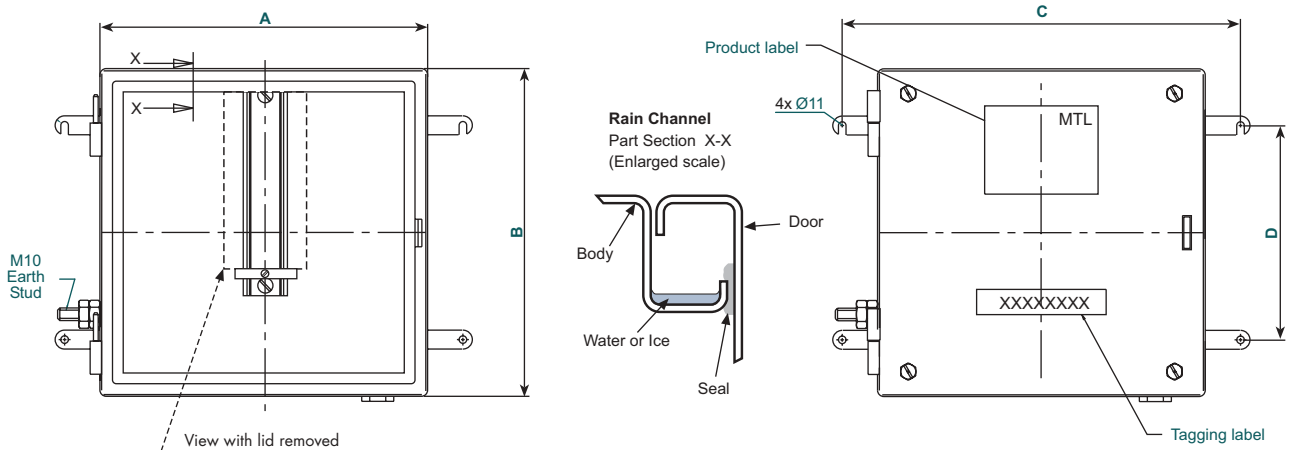
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ENCLOSURE AND MOUNTING DIMENSIONS



	A	B	C	D	E	F	Weight
FCS-7504	260	260	316	170	160	N/A	6.0 - 6.5kg
FCS-7510	260	260	316	170	160	N/A	6.0 - 7.0kg
FCS-7512	306	306	361	203	160	N/A	7.0 - 8.2kg
FCS-7520	450	380	506	250	156	185	10.0 - 12.2kg
FCS-7524	450	380	506	250	156	185	10.0 - 12.2kg

Dimensions in mm

GLANDING ARRANGEMENTS

