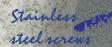
CSC, EFSCO, EFDC, EMHA

Command and control stations 'Ex d'

- Group IIC
- Zone 1, 2, 21, 22
- Aluminium alloy, stainless steel or cast iron enclosures
- Category 2GD or M2





Earthing bolt with rod to prevent cable from twisting

Cast metal fixing

lugs

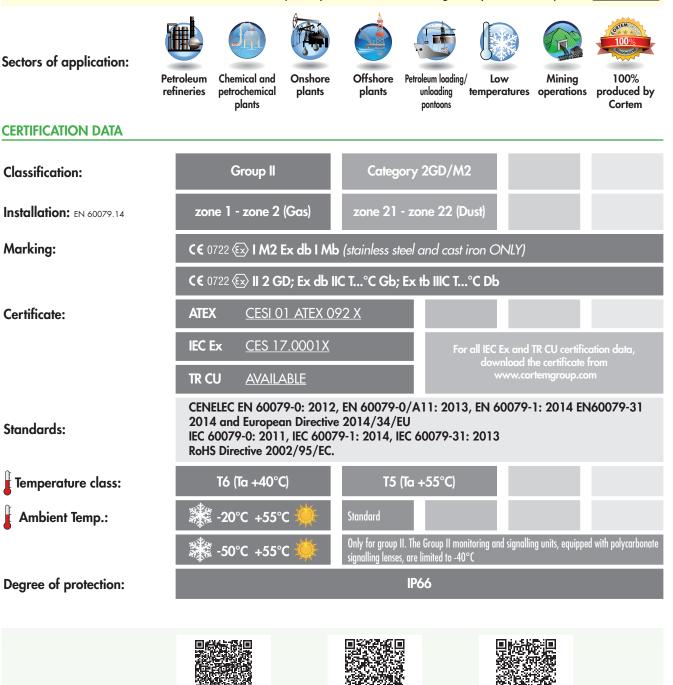
The $\underline{\text{Ex d IIC}}$ stations and controllers are suitable for the control and signalling of devices installed both "onboard" the machine and remotely (e.g. on a field control column). They are easily installed using wall mount lugs and have threaded entries for connection by means of a cable gland or metal pipe.

Used specifically in offshore and onshore environments, the chemical, petrochemical and pharmaceutical industries, and all locations which require an explosion proof system.

The switches, circuit breakers and selectors which make up the CSC series are 16 A rotary type with a front control handle. Supplied with 1" Male to 3/4" Female reducer. They are recommended for controlling devices both on board machine and on wall mounted columns. The various available cable arrangements make devices in the CSC series versatile for any type of use.

Cortem Group labels its products with a non-removable adhesive label featuring a hologram and an alphanumerical univocal code, as a safety measure against the illegal sale of fakes so that all the products are guaranteed as original. Non-compliance with the International standards entails serious risks for the environment, especially for those working daily on the plants.







IECEx Certificate

ATEX Certificate

Use and maintenance

instructions

CROSS-SECTION VIEW





MECHANICAL FEATURES OF ENCLOSURES

Body and lid:	Low copper content aluminium alloy, complete with wall fastening lugs.
Gaskets:	Acid, hydrocarbon and high temperature resistant silicon positioned between the body and the cover
Instrument casing:	Borosilicate glass
Certification label:	Adhesive affixed to external surface
Screws:	Stainless steel
Earth screw:	Internal M5 on body and lid connected by a 2.5 mm ² wire
Coating:	Polyester RAL 7035 (Light grey)
Threaded entries:	One upper and one lower \emptyset 1" complete with Male 1"- Female 3/4" adapter
Resistenza alla corrosione :	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

MECHANICAL FEATURES OF CONTROL AND SIGNALLING DEVICES

Pushbutton:	Coloured nylon
Illuminated pushbutton:	Clear coloured polycarbonate
Control levers:	Coated aluminium alloy
Badge:	Anodised aluminium, white lettering on black background
Internal bushing and pin:	Stainless steel
Gaskets:	Acid and hydrocarbon resistant NBR
Coating:	Polyester RÁL 7035 (Light grey), where applicable
Station assembly:	Screwed onto cover
Contacts assembly:	Snap action on an appropriate flange to ensure the quick connection of entire contacts block to the station
External body lens:	Impact and UV resistant polycarbonate lens, coloured or transparent

ELECTRICAL FEATURES

Contacts for pushbuttons:Max. 10A 600 VSwitches:16A, 690 VIndicator lights:24/250V, 3WAnalogue instruments:600V

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

RAL 2004 (Pure orange) internal anti-condensation coating

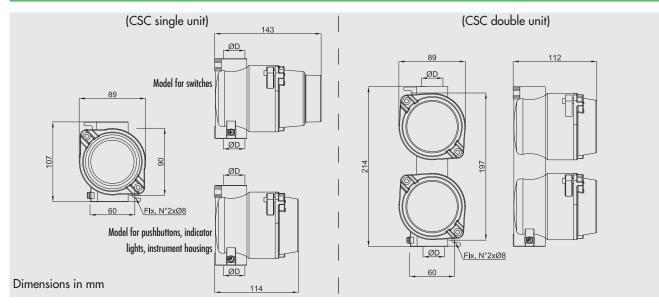
External polyester coatings in various colours (specify RAL colour)

Stainless steel or cast iron version available with minimum production batches. Contact your sales representative for more details. (sample code stainless steel CSC-DIN, cast iron sample code CSC-DGJ)

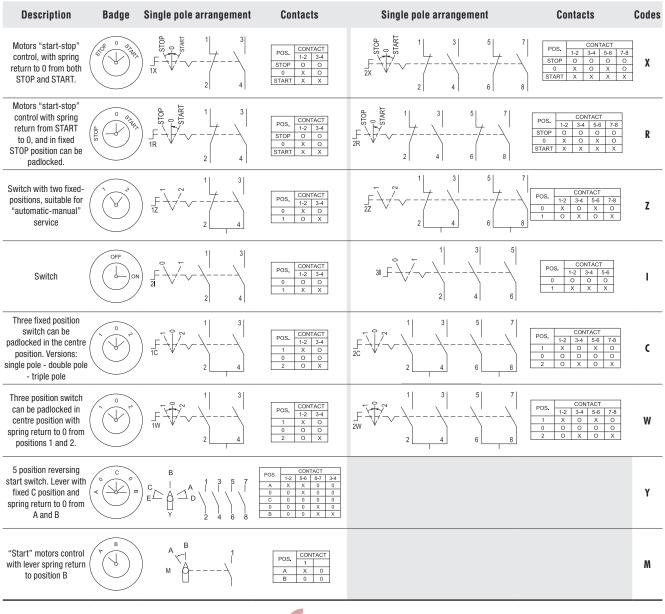
Cablegland / fittings

System protecting against accidental operation for mushroom-head push-buttons serie CSC-R (code M-990)





SELECTOR ARRANGEMENT



CORTEMGROUP®



Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	1″ ISO 7/1		<u>. Y.</u> N°		CSC-D
	1″ NPT	— Single body: double pushbutton	یک ۳ ۳	0.85 —	CSC-DN
	1″ ISO 7/1	Circle by during an damake mar	i N	0.00	CSC-G
	1″ NPT	— Single body: illuminated pushbutton	₽¥n ⊗ R R	0.90 —	CSC-GN
	1″ ISO 7/1		÷r R ⊗		CSC-GG
	1″ NPT	 Double body: double illuminated pushbutton 		1.60 —	CSC-GGN
	1″ ISO 7/1		\bigotimes		CSC-L
	1″ NPT	– Single body: single signal lamp	R	0.80 —	CSC-LN
	1″ ISO 7/1	– Double body: double signal lamp	\bigotimes_{\vee}	1.57 —	CSC-LL
	1″ NPT		× R		CSC-LLN
	1″ ISO 7/1	Single body: single pushbutton	°N°	0.74 —	CSC-P
	1″ NPT	(1NA+1NC)			CSC-PN
	1″ ISO 7/1	Single body: single pushbutton			CSC-2P
	1″ NPT	2NA 2NC		0.88 —	CSC-2PN
	1″ ISO 7/1	— Double body: pushbutton + indicator light	× R	1.63 —	CSC-PL
	1″ NPT	boune body, positivation + indicator light	⊗ R Ű	1.05	CSC-PLN
	1″ ISO 7/1	Dauble had a true and the st	ນ. ັກ° ນີ.	1.69 —	CSC-PP
	1″ NPT	— Double body: two pushbuttons	°R°		CSC-PPN
	1″ ISO 7/1	Single body: single maintained pushbutton			CSC-B
	1″ NPT	(maintained) (1NA+1NC)	°R°	0.90 —	CSC-BN
	1″ ISO 7/1	Single body: single maintained pushbutton (maintained) (2NA+2NC)			CSC-2B
	1″ NPT			0.92 —	CSC-2BN



Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	1″ ISO 7/1	Single body: mushroom head pushbutton (1NA			CSC-F
	1″ NPT	+ 1NC)	£.	0.92 —	CSC-FN
	1″ ISO 7/1	Single body: mushroom head pushbutton (2NA	ÊM ÊM		CSC-2F
	1″ NPT	+ 2NC)		0.94 —	CSC-2FN
	1″ ISO 7/1	Single body: 'twist to release' mushroom head		0.92 —	CSC-R
	1″ NPT	pushbutton	.	0.72	CSC-RN
	1″ ISO 7/1	Single body: 'twist to release' mushroom head	ÊMŘ	0.94 —	CSC-2R
	1″ NPT	pushbutton (2NA+2NC)		0.94	CSC-2RN
		Selectors			
	1″ ISO 7/1	— Single body: single p	ala calactar	0.87 —	CSC-1C
	1″ NPT	Single body. single p	OLE SELECTOR	0.07	CSC-1CN
	1″ ISO 7/1	— Single body: double p	ala calestar	0.89 —	CSC-2C
	1″ NPT	Single body. double p		0.07	CSC-2CN
	1″ ISO 7/1	— Cinala hadu: triala n	ala calactar	0.91 —	CSC-3C
-	1″ NPT	— Single body: triple pole selector		0.71	CSC-3CN
	1″ ISO 7/1	— Single body: single pole switch		0.87 —	CSC-11
	1″ NPT			0.07	CSC-11N
	1″ ISO 7/1	— Single body: double pole switch		0.89 —	CSC-2I
	1″ NPT			0.07	CSC-2IN
	1″ ISO 7/1	— Single body: triple pole switch		0.91 —	CSC-3I
	1″ NPT			0.71	CSC-3IN
	1″ ISO 7/1	Single body: run/stop selector			CSC-1R
	1″ NPT			0.89	CSC-1RN
	1″ ISO 7/1	— Single body: single pole selector		0.89 —	CSC-1W
	1″ NPT			0.09	CSC-1WN
	1″ ISO 7/1			0.91 —	CSC-2W
	1″ NPT	Single body. dooble p		0.71	CSC-2WN
	1″ ISO 7/1	— Single body: run/st	on coloctor	0.89 —	CSC-1X
	1″ NPT		oh zeleciol	0.07	CSC-1XN
	1″ ISO 7/1	— Single body: reversing	i ctart cuvitch	0.89 —	CSC-1Y
	1″ NPT	ວແຖຍ ມັນນີ້ຈີ. ເຊິ່ນອາຈິນແມ່	i siuri swiich	0.07	CSC-1YN
-	1″ ISO 7/1	— Single body: single pole circuit breaker		0.80 —	CSC-1Z
	1″ NPT	Single bouy. single pole		0.89 —	CSC-1ZN
	1″ ISO 7/1	Single body: double pole circuit breaker		0.89 —	CSC-2Z
	1″ NPT			0.07	CSC-2ZN
	1″ ISO 7/1	Single body: triple pole circuit breaker		0.89 —	CSC-3Z
	1″ NPT			0.07	CSC-3ZN





		Combinations		
Illustration	Entry ØD	Description	Weight Kg	Codes
	1″ ISO 7/1	Double body:	-	CSC-1CL
	1″ NPT	single pole changeover switch + indicator light	1.65	CSC-1CLN
	1″ ISO 7/1	Double body:		CSC-2CL
A CONTRACTOR OF	1″ NPT	double pole changeover switch + indicator light	1.67	CSC-2CLN
	1″ ISO 7/1	Double body:		CSC-3CL
	1″ NPT	triple pole changeover switch + indicator light	1.69	CSC-3CLN
	1″ ISO 7/1			CSC-P1C
2	1″ NPT	— Double body: pushbutton + single pole selector	1.70	CSC-P1CN
	1″ ISO 7/1			CSC-P2C
	1″ NPT	— Double body: pushbutton + double pole selector	1.72	CSC-P2CN
	1″ ISO 7/1			CSC-P3C
	1″ NPT	— Double body: pushbutton + triple pole selector	1.74	CSC-P3CN
	1″ ISO 7/1			CSC-1ZL
	1″ NPT	— Double body: single pole circuit breaker + indicator light	1.65	CSC-1ZLN
	1″ ISO 7/1	Double body: double pole circuit breaker + indicator light Double body: triple pole circuit breaker + indicator light	1.7	CSC-2ZL
-	1″ NPT		1.67	CSC-2ZLN
	1″ ISO 7/1		1.65	CSC-3ZL
	1″ NPT			CSC-3ZLN
	1″ ISO 7/1		1.70	CSC-P1Z
	1″ NPT	— Double body: pushbutton + single pole circuit breaker		CSC-P1ZN
	1″ ISO 7/1		1.72	CSC-P2Z
ALC: NOT	1″ NPT	— Double body: pushbutton + double pole circuit breaker		CSC-P2ZN
	1″ ISO 7/1			CSC-P3Z
	1″ NPT	— Double body: pushbutton + triple pole circuit breaker		CSC-P3ZN
	1″ ISO 7/1	Double body:	1.74	CSC-1R1C
	1″ NPT	run/stop selector + single pole switch	1.74	CSC-1R1CN
	1″ ISO 7/1	Double body:		CSC-1R2C
	1″ NPT	run/stop selector + single pole switch	1.76	CSC-1R2CN
	1″ ISO 7/1	Double body:	1.70	CSC-1R3C
	1″ NPT	run/stop selector + single pole switch	1.78	CSC-1R3CN
	1″ ISO 7/1	Double body:	1 70	CSC-1R1Z
	1″ NPT	run/stop selector + single pole circuit breaker	1.73	CSC-1R1ZN
	1″ ISO 7/1	Double body:		CSC-1R2Z
	1″ NPT	run/stop selector + double pole circuit breaker	1.76	CSC-1R2ZN
	1″ ISO 7/1	Double body:	1 70	CSC-1R3Z
	1″ NPT	run/stop selector + triple pole circuit breaker	1.78	CSC-1R3ZN



CODE SELECTION TABLE

Illustration	Entry ØD	Description	Weight Kg	Codes
	1″ ISO 7/1	Double body:		CSC-1X1C
	1″ NPT	run/stop selector + single pole switch	1.73	CSC-1X1CN
	1″ ISO 7/1	Double body:	1.70	CSC-1X2C
	1″ NPT	run/stop selector + double pole changeover switch	1.75	CSC-1X2CN
	1″ ISO 7/1	Double body:	1.73	CSC-1X3C
	1″ NPT	run/stop selector + triple pole changeover switch	1.75	CSC-1X3CN
	1″ ISO 7/1	Double body:	1.73	CSC-1X1Z
	1" NPT	run/stop selector + single pole circuit breaker	1.75	CSC-1X1ZN
	1″ ISO 7/1	Double body:	1.75	CSC-1X2Z
	1" NPT run/stop selector + double pole circuit breaker	1.75	CSC-1X2ZN	
	1″ ISO 7/1	Double body:	1.77	CSC-1X3Z
	1″ NPT	run/stop selector + triple pole circuit breaker	1.77	CSC-1X3ZN
	1″ ISO 7/1	Double body: run/stop selector + indicator light	1.67	CSC-1RL
	1″ NPT		1.07	CSC-1RLN
AND	1″ ISO 7/1	Double body: run/stop selector + indicator light	2.44	CSC-1XL
	1″ NPT		1.66	CSC-1XLN
2	1″ ISO 7/1		0.75	CSC-H
	1" NPT	— Single body: instrument casing		CSC-HN
	1″ ISO 7/1		1.50	сус-нн
Ó	1″ NPT	 Double body: instrument casing 	1.50	CSC-HHN
2	1″ ISO 7/1			CSC-1RH
	1″ NPT	— Double body:		CSC-1RHN
	1″ ISO 7/1	run/stop selector + instrument casing	1.67	CSC-1XH
	1″ NPT			CSC-1XHN
	1″ ISO 7/1	_		CSC-1ZK
	1″ NPT	Single body:	0.95	CSC-1ZKN
	1″ ISO 7/1	— Key operated handle with quick coupling for cam switch. Stainless steel bushing.		CSC-2ZK
	1″ NPT			CSC-2ZKN
	1″ ISO 7/1	Single body:	110	CSCPEA2
	1" NPT	break glass emergency pushbutton with hammer	1.10	CSCPEA2N

Note: For non-standard arrangements, contact the Sales Office.



CROSS-SECTION VIEW





DESCRIPTION

EFDC series control and monitoring units are suitable for the control and signalling of devices, both on board the machine or remotely, and are used in the chemical, petrochemical and pharmaceutical industries, and any location which requires an explosion proof system. A feature of this station is the ability to mount up to four operators on the cover.

MECHANICAL FEATURES OF ENCLOSURES

Body and lid:	Low copper content aluminium alloy, complete with wall fastening lugs.
Gaskets:	Acid, hydrocarbon and high temperature resistant silicon positioned between the body and the cover
Certification label:	Adhesive affixed to external surface
Screws:	Stainless steel
Earth screw:	Internal M5 on body and lid connected by a 2.5 mm ² wire
Coating:	Polyester RAL 7035 (Light grey)
Threaded entries:	One upper and one lower \emptyset 1"
Resistenza alla corrosione :	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

MECHANICAL FEATURES OF CONTROL AND SIGNALLING DEVICES

Pushbutton: Illuminated pushbutton: Control lever:	Coloured nylon Clear coloured polycarbonate Aluminium alloy
Badge:	Anodised aluminium, white lettering on black background
Outer body:	Aluminium alloy
Internal bushing and pin:	Stainless steel
Gaskets:	Acid and hydrocarbon resistant NBR
Station assembly:	Screwed onto cover
Contacts assembly:	Snap action on an appropriate flange to ensure the quick connection of entire contacts block to the station
External body lens:	Impact and UV resistant polycarbonate lens, coloured or transparent

ELECTRICAL FEATURES

Contacts for pushbuttons:	Max. 10A 600 V
Switches:	16A, 690 V
Indicator lights:	24/250V, 3W

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

RAL 2004 (Pure orange) internal anti-condensation coating External polyester coatings in various colours (specify RAL colour) Cablegland / fittings

System protecting against accidental operation for mushroom-head push-buttons serie EFDC-21EMR and EFDC-21EMC (code M-990)



DIMENSIONAL DRAWING

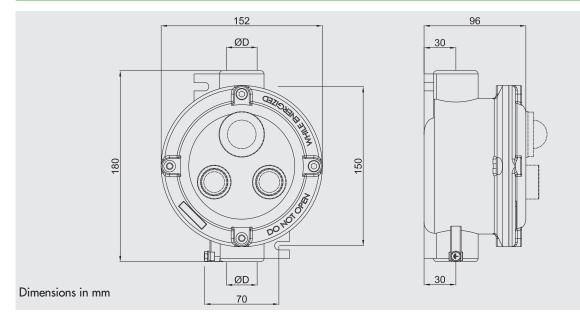


Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	1″ ISO 7/1	Single body:	<u>. Y.</u>	1.4	EFDC-21
	1″ NPT	button	یک R	1.4	EFDC-21N
	1″ ISO 7/1	Single body:	\otimes		EFDC-25
Boon o maree	1″ NPT	indicator light	R	1.4	EFDC-25N
	1″ ISO 7/1	Single body:	°N°	1.5	EFDC-22
	1″ NPT	two buttons	ید. ۳ ۳	1.5	EFDC-22N
	1″ ISO 7/1	Single body:	× ×		EFDC-24
	1″ NPT	two indicator lights		1.5	EFDC-24N
a lo and	1″ ISO 7/1	Single body: pushbutton with indicator light			EFDC-23
-	1″ NPT			1.5	EFDC-23N
	1″ ISO 7/1	Single body: three buttons	م <u>کر</u> ۳۳ ۳۰		EFDC-27
	1″ NPT			1.6	EFDC-27N
5	1″ ISO 7/1	Single body:	×		EFDC-20
	1″ NPT	three indicator lights	$\bigotimes_{R}^{V}\bigotimes_{R}$	1.6	EFDC-20N
	1″ ISO 7/1	Single hody:	Single body: two pushbuttons and an indicator light		EFDC-28
La and	1″ NPT	two pushbuttons and an indicator light		1.6	EFDC-28N
	1″ ISO 7/1	Single body:	R V V N°		EFDC-29
	1″ NPT	sungle boay: pushbutton with two indicator lights		1.6	EFDC-29N



Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
-	1″ ISO 7/1	Single body:	°N° °R°	1.0	EFDC-30
	1″ NPT	four pushbuttons	°N° °R°	1.8	EFDC-30N
	1″ ISO 7/1	Single body:	$\bigotimes_{R} \bigotimes_{V}$		EFDC-31
	1″ NPT	four indicator lights	$ \bigotimes_{\substack{R\\R}} \bigotimes_{V} \\ \bigotimes_{\substack{R\\V}} \\ \times \\ V $	1.8	EFDC-31N
	1″ ISO 7/1	Single body:	R N	10	EFDC-32
	1″ NPT	three pushbuttons with an indicator light	⊗ [⊥] . R °N <u>↓</u> <u>↓</u> R R	1.8	EFDC-32N
	1″ ISO 7/1	Single body:	× ×	10	EFDC-33
	1″ NPT	two pushbuttons with two indicator lights	⊗ ⊗ ∨ R ∨ A Ya° N° °R°	1.8	EFDC-33N
	1″ ISO 7/1	Single body: pushbutton with three indicator lights	× ×	1.8	EFDC-34
	1″ NPT		$\bigotimes_{R} \bigotimes_{V} \bigvee_{N}$		EFDC-34N
	1″ ISO 7/1	Single body: — emergency pushbutton station with protective glass and hammer	a_a eMv €Mv	1.4	EFDC-21EMV
	1″ NPT				EFDC-21EMVN
	1″ ISO 7/1	Single body:	Single body:		EFDC-21EM
	1″ NPT	emergency pushbutton station	em em	1.4	EFDC-21EMN
	1″ ISO 7/1	Emergency pushbutton station with 'twist to	Ą	1.4 —	EFDC-21EMR
	1″ NPT	release' mushroom head pushbutton	<u>⊥</u> ĚMŘ		EDFC-21EMRN
	1″ ISO 7/1	Emergency pushbutton station with key release	<u>Д</u> ÊMĈ		EFDC-21EMC
	1″ NPT	— mushroom head pushbutton (when the button is pressed, turn the key to release)		1.4	1.4 EFDC-21EMCN



CODE SELECTION TABLE

Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	1″ ISO 7/1	Emergency pushbutton station with 'twist	<u>Д</u> ЁМŘ	1.5	EFDC-21EMRV1
	1" NPT	 to release' mushroom head pushbutton and pushbutton 	°N°	1.5	EFDC-21EMRV1N
	1″ ISO 7/1	Emergency pushbutton station with 'twist	Д. Ёмк̂	10	EFDC-21EMRV2
	1″ NPT	 to release' mushroom head pushbutton, pushbutton and indicator light 	⊗ <u>⊥</u> R [°] N°	1.5	EFDC-21EMRV2N
	1″ ISO 7/1	_ Single body: emergency pushbutton station	n ÊMĈ sset <u>Y.</u> °N°	1.4	EFDC-21EMCV1
	1″ NPT	with mushroom head pushbutton and key reset			EFDC-21EMCV1N
	1″ ISO 7/1	Single body: emergency pushbutton station — with mushroom head pushbutton and key reset,	on ⊈ ÉMČ set, ⊗ ^ĭ n°	1.4	EFDC-21EMCV2
	1″ NPT	pushbutton and indicator light		1.7	EFDC-21EMCV2N
	1″ ISO 7/1	– Single body: Single pole selector		2.0	EFDC-1C
	1″ NPT				EFDC-1CN
	1″ ISO 7/1	— Single body: Double pole selector 🚽	$\begin{bmatrix} 1 & 3 & 5 \\ 7 & -1 & -1 \end{bmatrix}$	2.1	EFDC-2C
	1″ NPT	2C			EFDC-2CN

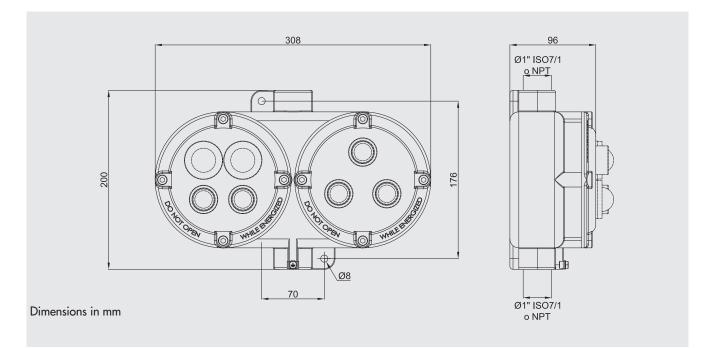
Note: For non-standard arrangements, contact the Sales Office.



DESCRIPTION

EFDC series control and signalling stations -.../... are double bodied enclosures and can contain up to eight devices. They are used for the remote control of devices such as distribution panels for lights, pumps, starter motors, etc.

DIMENSIONAL DRAWING



CODE SELECTION TABLE

Use the code in the selection table of EFDC single body stations to compose the code for double body stations.

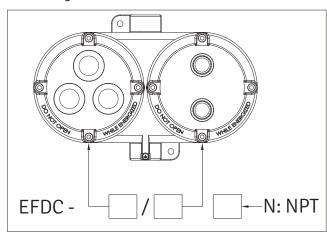
Example:

EFDC-20/22

Double body station with three indicator lights in the left-hand enclosure and two pushbuttons in the one to the right. Two 1'' ISO7/1 fittings.

EFDC-23/21N

Double body station with pushbutton and indicator light in the left-hand enclosure and a pushbutton in the one to the right. Two 1" NPT fittings.





EFDC33/2C connected to an instrument casing CSC-H with ammeter.







CSC Series... Switches, selectors and circuit breaker



EXPLODED VIEW



DESCRIPTION

The switches, circuit breakers and selectors which make up the CSC series are 16 A rotary type with a front control handle. Supplied with 1" Male to 3/4" Female reducer

MECHANICAL FEATURES

Body and lid: Gaskets:	Low copper content aluminium alloy, complete with wall fastening lugs. Acid, hydrocarbon and high temperature resistant silicon positioned between the body and the cover
Control lever:	Coated aluminium alloy
Certification label:	Adhesive affixed to external surface
Badge:	Anodised aluminium, white lettering on black background
Internal bushing and pin:	Stainless steel
Control lever:	Aluminium alloy
Screws:	Stainless steel
Earth screw:	Internal M5 on body and lid connected by a 2.5 mm ² wire
Coating:	Polyester RAL 7035 (Light grey)
Threaded entries:	One upper and one lower \emptyset 1" complete with Male 1"- Female 3/4" adapter
Resistenza alla corrosione:	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

ELECTRICAL FEATURES

Switches:

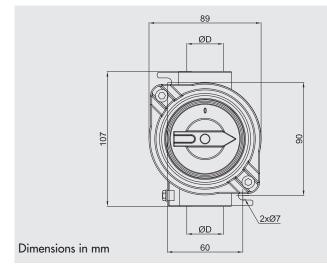
16A, 690 V

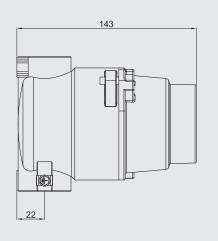
ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

RAL 2004 (Pure orange) internal anti-condensation coating External polyester coatings in various colours (specify RAL colour) Stainless steel or cast iron version available with minimum production batches. Contact your sales representative for more details. (sample code stainless steel CSC-216**IN**, cast iron sample code CSC-216**GJ**)

Cablegland / fittings







SELECTION TABLE

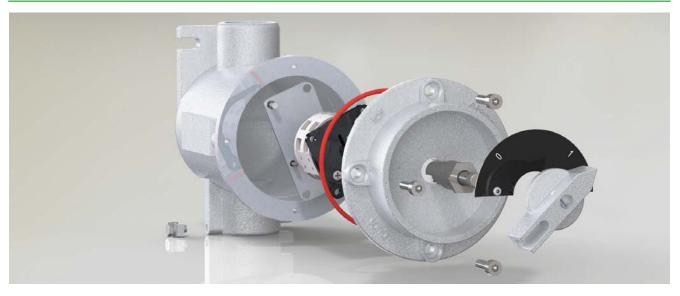
Illustration	Entry ØD (*)	Description	Badge	Arrangement	Capacity	Poles	Weight Kg	Code
	1″ ISO 7/1	Switch with 2 fixed positions '0-1'		$2I = \begin{bmatrix} 1 & 3 \\ 2 & - & - \\ 2 & - & - \\ 2 & - & - \\ 2 & - & - \\ 2 & - & - \\ 2 & - & - \\ 2 & - & - \\ 4 & - & - \\ 0 & - & - \\ 0 & - & - \\ 1 & - & - \\ 1 & - & - \\ 0 & - & - \\ 1$	16 A	2	0.95 -	CSC-216
	1″ NPT							CSC-216N
	1″ ISO 7/1	Switch with 2 fixed			16 A	3	0.86 -	CSC-316
	1″ NPT	positions '0-1'		POS. CONTACT 1-2 3-4 5-6 0 0 0 1 X X X			0.00	CSC-316N
	1″ ISO 7/1	Switch with 2 fixed positions '0-1'			16 A	4	0.85 -	CSC-416
	1″ NPT			Pos. CONTACT 1-2 3-4 5-6 7-8 0 0 0 0 0 1 X X X X				CSC-416N
	1″ ISO 7/1	Switch with 3 fixed positions '1-0-2'		$\begin{bmatrix} - & - & - & - & - & - \\ - & - & - & - &$	16 A	2	0.89 -	CSCC-216
	1″ NPT			POS. CONTACT 1 K2 34 54 74 0			0.07 -	CSCC-216N
	1″ ISO 7/1	Switch with 3 fixed positions '1-2'			16 A	2	0.90	CSCD-216
	1″ NPT			POS. CONTACT 1-2 3-4 1 X 0 2 0 X			0.89	CSCD-216N
	1″ ISO 7/1	Inverter with 3 fixed positions '1-0-2'					0.89	CSCI-216
	1″ NPT			POSITION CONTACT 1 0 X 0 2 X 0 0 0	16 A	2		CSCI-216N

* Supplied with 1" Male to 3/4" Female reducer

EFSCO Series... Switches, selectors and circuit breaker



EXPLODED VIEW



The switches, circuit breakers and selectors which make up the EFSCO series are 25, 32, 40 and 63 A rotary type with a front control handle.

MECHANICAL FEATURES

Body and lid: Gaskets:	Low copper content aluminium alloy, complete with wall fastening lugs. Acid, hydrocarbon and high temperature resistant silicon positioned between the body and the cover
Control lever:	Coated aluminium alloy
Certification label:	Adhesive affixed to external surface
Badge:	Anodised aluminium, white lettering on black background
Internal bushing and pin:	Stainless steel
Screws:	Stainless steel
Earth screw:	Internal M5 on body and lid connected by a 2.5 mm ² wire
Coating:	Polyester RAL 7035 (Light grey)
Resistenza alla corrosione :	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

ELECTRICAL FEATURES

Switches:

25 A to 63 A, 690 V

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

RAL 2004 (Pure orange) internal anti-condensation coating External polyester coatings in various colours (specify RAL colour) Stainless steel version available with minimum production batches. Contact your sales representative for more details. (sample code stainless steel EFSCO-266**IN**) Cablegland / fittings

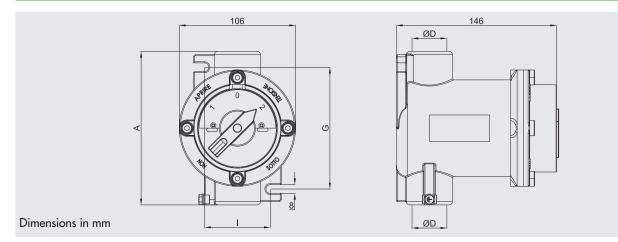


Illustration	Entry D ISO7/1	A	G	I	Description	Arrangement	Capacity	Poles	Weight Kg	Code
]″	140	110	60	- _ Switch with 2 fixed positions '0-1'	$2l = \begin{bmatrix} 1 & 3 \\ - & - & - \\ 2 & 4 \end{bmatrix}$	25 A	2	1.14	EFSCO-22
]″	140	110	60			32 A	2	1.20	EFSCO-32
	1″	140	110	60			40 A	2	1.35	EFSCO-42
	1 1/2″	160	120	80			63 A	2	1.35	EFSCO-62
]″	140	110	60		\circ (1) (3) (5)	25 A	3	1.14	EFSCO-23
]″	140	110	60	_ Switch with 2 fixed	31 _F +	32 A	3	1.20	EFSCO-33
	1″	140	110	60	positions '0-1'	2 4 6	40 A	3	1.35	EFSCO-43
	1 1/2″	160	120	80			63 A	3	1.40	EFSCO-63
]″	140	110	60		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	25 A	4	1.18	EFSCO-24
	1″	140	110	60	- Switch with 2 fixed		32 A	4	1.20	EFSCO-34
]″	140	110	60	positions '0-1'		40 A	4	1.35	EFSCO-44
	1 1/2″	160	120	80	_		63 A	4	1.40	EFSCO-64
	1″	140	110	60		$1Z = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \hline 12 &$	25 A	1	1.20	EFSCO-26
]″	140	110	60	Circuit breaker with 2 fixed positions '1-2'		32 A	1	1.18	EFSCO-36
]″	140	110	60			40 A	1	1.20	EFSCO-46
]″	140	110	60			63 A	1	1.40	EFSCO-66
]″	140	110	60			25 A	2	1.18	EFSCO-266
]″	140	110	60	_		32 A	2	1.18	EFSCO-366
	1 1/2″	160	120	80		POS. CONTACT 1-2 3-4 5-6 7-8 0 X 0 X 0 1 O X 0 X	40 A	2	1.20	EFSCO-466
]″	140	110	60	- - Switch with 3 fixed positions '1-0-2'		25 A	1	1.14	EFSCO-242
]″	140	110	60			32 A	1	1.18	EFSCO-342
]″	140	110	60			40 A	1	1.18	EFSCO-442
]″	140	110	60		POS. COM/IAC 1-2 3-4 1 X 0 0 2 0	63 A	1	1.40	EFSCO-642
]″	140	110	60		$ \begin{array}{c c} & 1 & 3 & 5 & 7 \\ \hline \\ F & 7 & 7 & 7 & 7 & 7 \\ \hline \\ 2c & 7 & 7 & 7 & 7 & 7 \\ \hline \end{array} $	25 A	2	1.14	EFSCO-244
]″	140	110	60		2 4 6 8	32 A	2	1.18	EFSCO-344
	1 1/2″	160	120	80		POS. CONTACT 1-2 3-4 5-6 7-8 1 X 0 X 0 0 0 0 0 0 2 0 X 0 X	40 A	2	1.18	EFSCO-444



EMHA-9 and CSC-H Series... Instrument housings



CROSS-SECTION VIEW



DESCRIPTION

EMHA-9 instrument housings are normally used to contain medium-sized analogue instruments such as ammeters and voltmeters. CSC-H instrument housings are normally used to contain small-sized analogue instruments such as ammeters and voltmeters.

MECHANICAL FEATURES

Body and lid: Gaskets:	Low copper content aluminium alloy, complete with wall fastening lugs. Acid, hydrocarbon and high temperature resistant silicon positioned between the body and the cover
Glass	tempered and temperature resistant
Internal frame:	Aluminium
Certification label:	Adhesive affixed to external surface
Screws:	Stainless steel
Earth screw:	Internal M5 on body and lid connected by a 2.5 mm ² wire
Coating:	Polyester RAL 7035 (Light grey)
Threaded entries:	One upper and one lower $Ø 3/4''$
Resistenza alla corrosione :	The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

Measuring instruments (Voltmeter - Ammeter) RAL 2004 (Pure orange) internal anti-condensation coating External polyester coatings in various colours (specify RAL colour) Stainless steel or cast iron version available with minimum production batches. Contact your sales representative for more details. (sample code stainless steel EMHA-9IN, cast iron sample code EMHA-9GJ) Cablegland / fittings



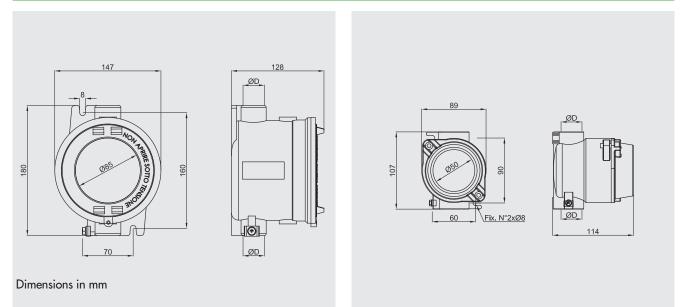


Illustration	Entry ØD	Description	Weight Kg	Codes
	3/4″ IS07/1	Instrument casing Ø85 mm	1.88	EMHA-9
	3/4″ NPT	אוווי כסש אוויינטאוויניאין אוויינאין אוויינאין אוויינאין אוויינאין א	1.00	EMHA-9N
	1″ ISO 7/1	Single body: instrument casing	0.75	CSC-H
	1″ NPT	Single vouy, instrutterit tusing	0.75	CSC-HN

