



The 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.

Manufacturer 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.

Sectors of application:



Petroleum refineries



Chemical and petrochemical plants



Onshore plants



Offshore plants



Petroleum loading/unloading pontoons



Low temperatures



Mining operations

CERTIFICATION DATA

Classification:

Group II

Category 2GD/M2

Installation: EN 60079.14

zone 1 - zone 2 (Gas)

zone 21 - zone 22 (Dust)

Marking:

CE 0722 Ex I M2 Ex db I Mb (stainless steel and cast iron ONLY)

CE 0722 Ex II 2 GD; Ex db IIC T...°C Gb; Ex tb IIIC T...°C Db

Certificate:

ATEX CESI 01 ATEX 092 X

IEC Ex CES 17.0001X

TR CU AVAILABLE

For all IEC Ex and TR CU certification data, contact comm@antideflagrante.com

Standards:

CENELEC EN 60079-0: 2012, EN 60079-0/A11: 2013, EN 60079-1: 2014 EN60079-31 2014 and European Directive 2014/34/EU
IEC 60079-0: 2011, IEC 60079-1: 2014, IEC 60079-31: 2013
RoHS Directive 2002/95/EC.

Temperature class:

T6 (Ta +40°C)

T5 (Ta +55°C)

Ambient Temp.:

-20°C +55°C

Standard

-50°C +55°C

Only for group II. The Group II monitoring and signalling units, equipped with polycarbonate signalling lenses, are limited to -40°C

Degree of protection:

IP66



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 Ø 1" complete with Male 1" - Female 3/4" adapter
Resistenza alla corrosione:	The STANDARD of the aluminium alloy used by manufacturer 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 RAL 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

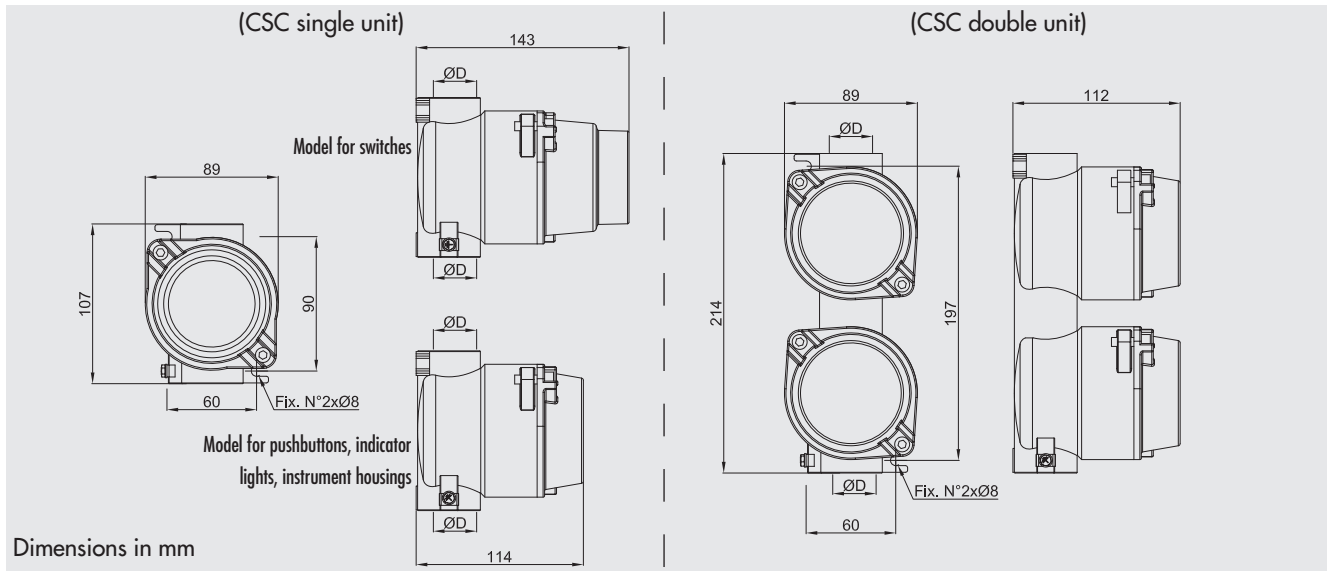
Contacts for pushbuttons:	Max. 10A 600 V
Switches:	16A, 690 V
Indicator lights:	24/250V, 3W
Analogue instruments:	600V

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

RAL 2004 (Pure orange) internal anti-condensation coating
 External polyester coatings in various colours (specify RAL colour)
 Stainless steel version (sample code CSC-DIN)
 Cast iron version (sample code CSC-DGJ)
 Cablegland / fittings
 System protecting against accidental operation for mushroom-head push-buttons serie CSC-R (code M-990)



DIMENSIONAL DRAWING



SELECTOR ARRANGEMENT

Description	Badge	Single pole arrangement	Contacts	Single pole arrangement	Contacts	Codes																												
Motors "start-stop" control, with spring return to 0 from both STOP and START.			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> </tr> </thead> <tbody> <tr> <td>STOP</td> <td>O O</td> </tr> <tr> <td>0</td> <td>X O</td> </tr> <tr> <td>START</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	STOP	O O	0	X O	START	X X		<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> <th>5-6</th> <th>7-8</th> </tr> </thead> <tbody> <tr> <td>STOP</td> <td>O O</td> <td>O O</td> <td>O O</td> </tr> <tr> <td>0</td> <td>X O</td> <td>X O</td> <td>X O</td> </tr> <tr> <td>START</td> <td>X X</td> <td>X X</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	5-6	7-8	STOP	O O	O O	O O	0	X O	X O	X O	START	X X	X X	X X	X
POS.	CONTACT																																	
1-2	3-4																																	
STOP	O O																																	
0	X O																																	
START	X X																																	
POS.	CONTACT																																	
1-2	3-4	5-6	7-8																															
STOP	O O	O O	O O																															
0	X O	X O	X O																															
START	X X	X X	X X																															
Motors "start-stop" control with spring return from START to 0, and in fixed STOP position can be padlocked.			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> </tr> </thead> <tbody> <tr> <td>STOP</td> <td>O O</td> </tr> <tr> <td>0</td> <td>X O</td> </tr> <tr> <td>START</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	STOP	O O	0	X O	START	X X		<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> <th>5-6</th> <th>7-8</th> </tr> </thead> <tbody> <tr> <td>STOP</td> <td>O O</td> <td>O O</td> <td>O O</td> </tr> <tr> <td>0</td> <td>X O</td> <td>X O</td> <td>X O</td> </tr> <tr> <td>START</td> <td>X X</td> <td>X X</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	5-6	7-8	STOP	O O	O O	O O	0	X O	X O	X O	START	X X	X X	X X	R
POS.	CONTACT																																	
1-2	3-4																																	
STOP	O O																																	
0	X O																																	
START	X X																																	
POS.	CONTACT																																	
1-2	3-4	5-6	7-8																															
STOP	O O	O O	O O																															
0	X O	X O	X O																															
START	X X	X X	X X																															
Switch with two fixed-positions, suitable for "automatic-manual" service			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>X O</td> </tr> <tr> <td>1</td> <td>O X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	0	X O	1	O X		<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> <th>5-6</th> <th>7-8</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>X O</td> <td>X O</td> <td>O O</td> </tr> <tr> <td>1</td> <td>O X</td> <td>O X</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	5-6	7-8	0	X O	X O	O O	1	O X	O X	X X	Z						
POS.	CONTACT																																	
1-2	3-4																																	
0	X O																																	
1	O X																																	
POS.	CONTACT																																	
1-2	3-4	5-6	7-8																															
0	X O	X O	O O																															
1	O X	O X	X X																															
Switch			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>O O</td> </tr> <tr> <td>1</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	0	O O	1	X X		<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> <th>5-6</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>O O</td> <td>O O</td> </tr> <tr> <td>1</td> <td>X X</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	5-6	0	O O	O O	1	X X	X X	I									
POS.	CONTACT																																	
1-2	3-4																																	
0	O O																																	
1	X X																																	
POS.	CONTACT																																	
1-2	3-4	5-6																																
0	O O	O O																																
1	X X	X X																																
Three fixed position switch can be padlocked in the centre position. Versions: single pole - double pole - triple pole			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>X O</td> </tr> <tr> <td>0</td> <td>O O</td> </tr> <tr> <td>2</td> <td>O X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	1	X O	0	O O	2	O X		<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> <th>5-6</th> <th>7-8</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>X O</td> <td>X O</td> <td>O O</td> </tr> <tr> <td>0</td> <td>O O</td> <td>O O</td> <td>O O</td> </tr> <tr> <td>2</td> <td>O X</td> <td>O X</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	5-6	7-8	1	X O	X O	O O	0	O O	O O	O O	2	O X	O X	X X	C
POS.	CONTACT																																	
1-2	3-4																																	
1	X O																																	
0	O O																																	
2	O X																																	
POS.	CONTACT																																	
1-2	3-4	5-6	7-8																															
1	X O	X O	O O																															
0	O O	O O	O O																															
2	O X	O X	X X																															
Three position switch can be padlocked in centre position with spring return to 0 from positions 1 and 2.			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>X O</td> </tr> <tr> <td>0</td> <td>O O</td> </tr> <tr> <td>2</td> <td>O X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	1	X O	0	O O	2	O X		<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>3-4</th> <th>5-6</th> <th>7-8</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>X O</td> <td>X O</td> <td>O O</td> </tr> <tr> <td>0</td> <td>O O</td> <td>O O</td> <td>O O</td> </tr> <tr> <td>2</td> <td>O X</td> <td>O X</td> <td>X X</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	3-4	5-6	7-8	1	X O	X O	O O	0	O O	O O	O O	2	O X	O X	X X	W
POS.	CONTACT																																	
1-2	3-4																																	
1	X O																																	
0	O O																																	
2	O X																																	
POS.	CONTACT																																	
1-2	3-4	5-6	7-8																															
1	X O	X O	O O																															
0	O O	O O	O O																															
2	O X	O X	X X																															
5 position reversing start switch. Lever with fixed C position and spring return to 0 from A and B			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1-2</th> <th>5-6</th> <th>8-7</th> <th>3-4</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>X X</td> <td>X O</td> <td>O O</td> </tr> <tr> <td>0</td> <td>O X</td> <td>O O</td> <td>O O</td> </tr> <tr> <td>C</td> <td>O O</td> <td>O O</td> <td>O O</td> </tr> <tr> <td>0</td> <td>O O</td> <td>X O</td> <td>O O</td> </tr> <tr> <td>B</td> <td>O O</td> <td>O X</td> <td>X O</td> </tr> </tbody> </table>	POS.	CONTACT	1-2	5-6	8-7	3-4	A	X X	X O	O O	0	O X	O O	O O	C	O O	O O	O O	0	O O	X O	O O	B	O O	O X	X O			Y		
POS.	CONTACT																																	
1-2	5-6	8-7	3-4																															
A	X X	X O	O O																															
0	O X	O O	O O																															
C	O O	O O	O O																															
0	O O	X O	O O																															
B	O O	O X	X O																															
"Start" motors control with lever spring return to position B			<table border="1"> <thead> <tr> <th>POS.</th> <th>CONTACT</th> </tr> <tr> <th>1</th> <th></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>X O</td> </tr> <tr> <td>B</td> <td>O O</td> </tr> </tbody> </table>	POS.	CONTACT	1		A	X O	B	O O			M																				
POS.	CONTACT																																	
1																																		
A	X O																																	
B	O O																																	





CSC Series... Control and signalling station

CODE SELECTION TABLE

Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	1" ISO 7/1	Single body: double pushbutton		0.85	CSC-D
	1" NPT				CSC-DN
	1" ISO 7/1	Single body: illuminated pushbutton		0.90	CSC-G
	1" NPT				CSC-GN
	1" ISO 7/1	Double body: double illuminated pushbutton		1.60	CSC-GG
	1" NPT				CSC-GGN
	1" ISO 7/1	Single body: single signal lamp		0.80	CSC-L
	1" NPT				CSC-LN
	1" ISO 7/1	Double body: double signal lamp		1.57	CSC-LL
	1" NPT				CSC-LLN
	1" ISO 7/1	Single body: single pushbutton (1NA+1NC)		0.74	CSC-P
	1" NPT				CSC-PN
	1" ISO 7/1	Single body: single pushbutton 2NA 2NC		0.88	CSC-2P
	1" NPT				CSC-2PN
	1" ISO 7/1	Double body: pushbutton + indicator light		1.63	CSC-PL
	1" NPT				CSC-PLN
	1" ISO 7/1	Double body: two pushbuttons		1.69	CSC-PP
	1" NPT				CSC-PPN
	1" ISO 7/1	Single body: single maintained pushbutton (maintained) (1NA+1NC)		0.90	CSC-B
	1" NPT				CSC-BN
	1" ISO 7/1	Single body: single maintained pushbutton (maintained) (2NA+2NC)		0.92	CSC-2B
	1" NPT				CSC-2BN



CODE SELECTION TABLE

Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	1" ISO 7/1	Single body: mushroom head pushbutton (1NA + 1NC)		0.92	CSC-F
	1" NPT				CSC-FN
	1" ISO 7/1	Single body: mushroom head pushbutton (2NA + 2NC)		0.94	CSC-2F
	1" NPT				CSC-2FN
	1" ISO 7/1	Single body: 'twist to release' mushroom head pushbutton		0.92	CSC-R
	1" NPT				CSC-RN
	1" ISO 7/1	Single body: 'twist to release' mushroom head pushbutton (2NA+2NC)		0.94	CSC-2R
	1" NPT				CSC-2RN
Selectors					
	1" ISO 7/1	Single body: single pole selector		0.87	CSC-1C
	1" NPT				CSC-1CN
	1" ISO 7/1	Single body: double pole selector		0.89	CSC-2C
	1" NPT				CSC-2CN
	1" ISO 7/1	Single body: triple pole selector		0.91	CSC-3C
	1" NPT				CSC-3CN
	1" ISO 7/1	Single body: single pole switch		0.87	CSC-1I
	1" NPT				CSC-1IN
	1" ISO 7/1	Single body: double pole switch		0.89	CSC-2I
	1" NPT				CSC-2IN
	1" ISO 7/1	Single body: triple pole switch		0.91	CSC-3I
	1" NPT				CSC-3IN
	1" ISO 7/1	Single body: run/stop selector		0.89	CSC-1R
	1" NPT				CSC-1RN
	1" ISO 7/1	Single body: single pole selector		0.89	CSC-1W
	1" NPT				CSC-1WN
	1" ISO 7/1	Single body: double pole selector		0.91	CSC-2W
	1" NPT				CSC-2WN
	1" ISO 7/1	Single body: run/stop selector		0.89	CSC-1X
	1" NPT				CSC-1XN
	1" ISO 7/1	Single body: reversing start switch		0.89	CSC-1Y
	1" NPT				CSC-1YN
	1" ISO 7/1	Single body: single pole circuit breaker		0.89	CSC-1Z
	1" NPT				CSC-1ZN
	1" ISO 7/1	Single body: double pole circuit breaker		0.89	CSC-2Z
	1" NPT				CSC-2ZN
	1" ISO 7/1	Single body: triple pole circuit breaker		0.89	CSC-3Z
	1" NPT				CSC-3ZN



CSC Series... Control and signalling station

CODE SELECTION TABLE

Illustration	Combinations			
	Entry ØD	Description	Weight Kg	Codes
	1" ISO 7/1	Double body: single pole changeover switch + indicator light	1.65	CSC-1CL
	1" NPT			CSC-1CLN
	1" ISO 7/1	Double body: double pole changeover switch + indicator light	1.67	CSC-2CL
	1" NPT			CSC-2CLN
	1" ISO 7/1	Double body: triple pole changeover switch + indicator light	1.69	CSC-3CL
	1" NPT			CSC-3CLN
	1" ISO 7/1	Double body: pushbutton + single pole selector	1.70	CSC-P1C
	1" NPT			CSC-P1CN
	1" ISO 7/1	Double body: pushbutton + double pole selector	1.72	CSC-P2C
	1" NPT			CSC-P2CN
	1" ISO 7/1	Double body: pushbutton + triple pole selector	1.74	CSC-P3C
	1" NPT			CSC-P3CN
	1" ISO 7/1	Double body: single pole circuit breaker + indicator light	1.65	CSC-1ZL
	1" NPT			CSC-1ZLN
	1" ISO 7/1	Double body: double pole circuit breaker + indicator light	1.67	CSC-2ZL
	1" NPT			CSC-2ZLN
	1" ISO 7/1	Double body: triple pole circuit breaker + indicator light	1.65	CSC-3ZL
	1" NPT			CSC-3ZLN
	1" ISO 7/1	Double body: pushbutton + single pole circuit breaker	1.70	CSC-P1Z
	1" NPT			CSC-P1ZN
	1" ISO 7/1	Double body: pushbutton + double pole circuit breaker	1.72	CSC-P2Z
	1" NPT			CSC-P2ZN
	1" ISO 7/1	Double body: pushbutton + triple pole circuit breaker	1.74	CSC-P3Z
	1" NPT			CSC-P3ZN
	1" ISO 7/1	Double body: run/stop selector + single pole switch	1.74	CSC-1R1C
	1" NPT			CSC-1R1CN
	1" ISO 7/1	Double body: run/stop selector + single pole switch	1.76	CSC-1R2C
	1" NPT			CSC-1R2CN
	1" ISO 7/1	Double body: run/stop selector + single pole switch	1.78	CSC-1R3C
	1" NPT			CSC-1R3CN
	1" ISO 7/1	Double body: run/stop selector + single pole circuit breaker	1.73	CSC-1R1Z
	1" NPT			CSC-1R1ZN
	1" ISO 7/1	Double body: run/stop selector + double pole circuit breaker	1.76	CSC-1R2Z
	1" NPT			CSC-1R2ZN
	1" ISO 7/1	Double body: run/stop selector + triple pole circuit breaker	1.78	CSC-1R3Z
	1" NPT			CSC-1R3ZN



CODE SELECTION TABLE

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

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



EFDC Series... Control and signalling station



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 Ø 1"

Resistenza alla corrosione :

The STANDARD of the aluminium alloy used by manufacturer 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 lever:	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

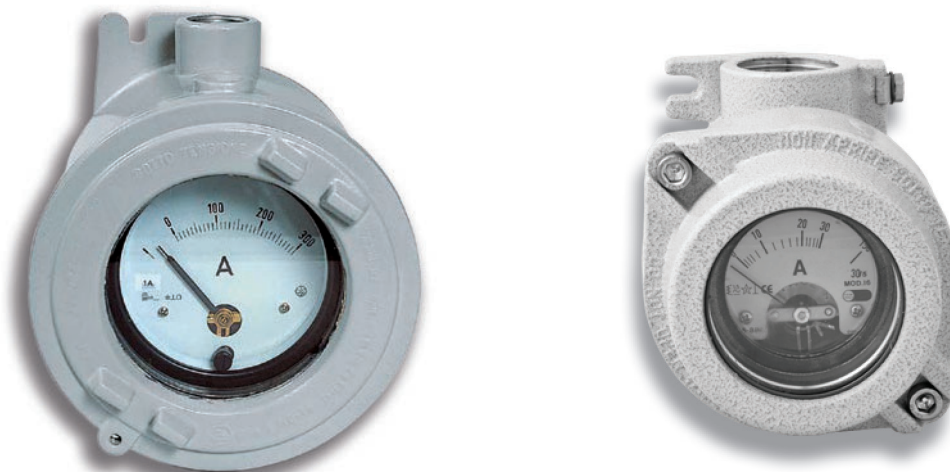
ELECTRICAL FEATURES

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

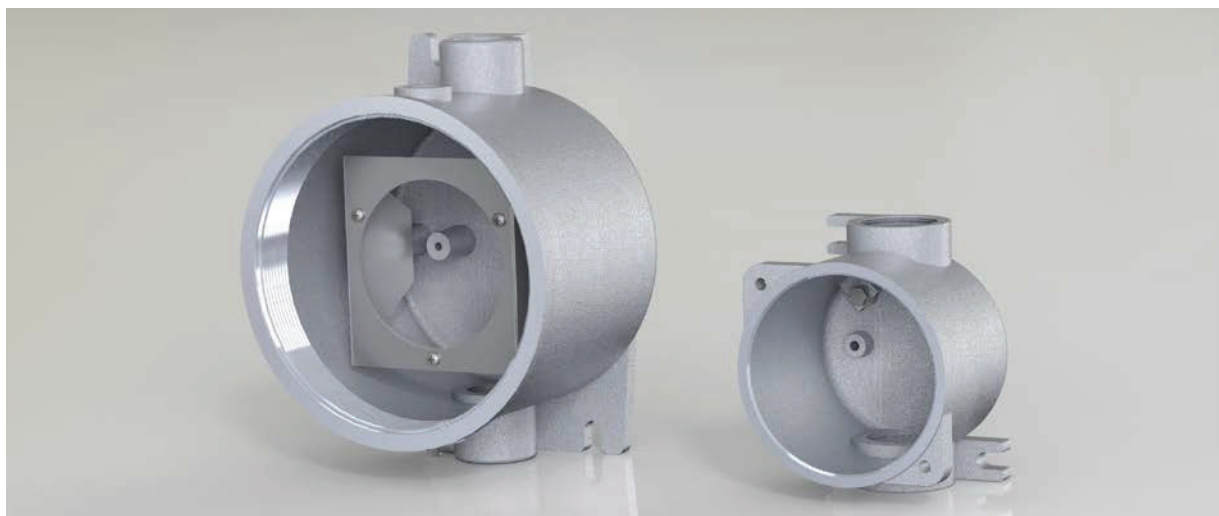
ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

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**)



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:	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
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:

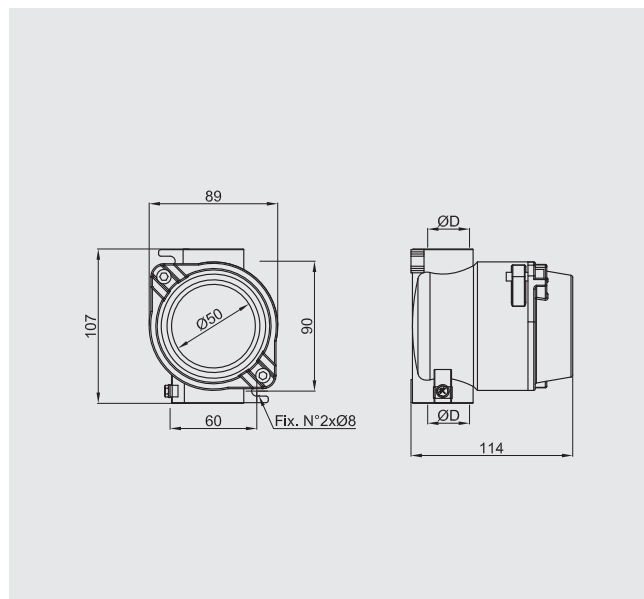
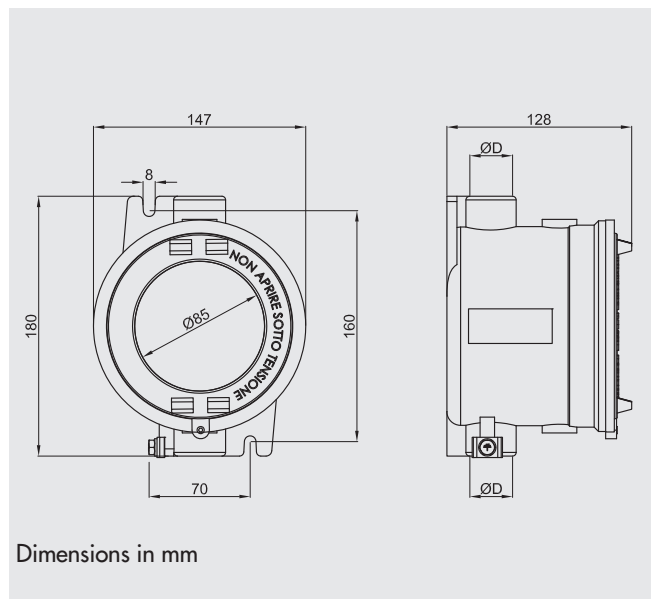
The STANDARD of the aluminium alloy used by manufacturer has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

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 version (sample code EMHA-9IN)
 Cast iron version (sample code EMHA-9GJ)
 Cablegland / fittings



DIMENSIONAL DRAWING



Dimensions in mm

CODE SELECTION TABLE

Illustration	Entry ØD	Description	Weight Kg	Codes
	3/4" ISO7/1	Instrument casing Ø85 mm	1.88	EMHA-9
	3/4" NPT			EMHA-9N
	1" ISO 7/1	Single body: instrument casing	0.75	CSC-H
	1" NPT			CSC-HN



CSCPEA2 emergency alarm button with its glass protective cover is the ideal solution for setting off audible/visual alarms in the event of danger. The device comes complete with a hammer for breaking the glass. The emergency button is kept pressed by the actual glass. The contacts change when the glass is broken and the button is released automatically.

Application sectors:



CERTIFICATION DATA

Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	CE (Ex) II 2 GD Ex d IIC T6 Ex tD A21 IP66			
Certification:	ATEX CESI 01 ATEX 092			
	ATEX TSA 06.0009			
	TR CU AVAILABLE		All TR CU certification data contact comm@antideflagrantiGCE.com	
Standards:	CENELEC EN 60079-0: 2006, EN 60079-1: 2007, EN 61241-0: 2006, EN 61241-1: 2004 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2004, IEC60079-1: 2003, IEC61241-0: 2004, IEC 61241-1: 2004			
Class temperature:	85°C (T6)			
Ambient temperature:	Standard -20°C +60°C	Special -50°C +60°C		
Degree of protection:	IP66			



MECHANICAL FEATURES

ORIGINAL PRODUCT

Body and cover:	Low copper content aluminium alloy
Glass holder ring:	RAL3000 (Fire red) painted aluminium
Glass:	Transparent breakable glass
Hammer:	In brass with steel chain
Emergency button:	Resistant nylon
Gaskets:	Acid/hydrocarbon resistant NBR. For temperatures of -50°C, silicone gasket
Bolts and screws:	Stainless steel
Mounting:	Two 7x9.5 slots
Entries:	2 x 1" ISO 7/1 complete with type RE32G reduction from 1" to 3/4" ISO 7/1
Coating:	Epoxy coating Ral 7035 (light grey)
Corrosion Resistance:	The STANDARD of the aluminium alloy used by manufacturer has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)
Contacts	
Contact operation:	
Connection:	low opening
Torque setting:	2 x 1.5 mm ² screw terminals
Type of screw head:	0.8...1.2 N.m Grooved, flat Ø 4 mm / Grooved, flat Ø 5.5 mm
Contact material:	Star headed, Pozidriv No 1 / Star headed, Philips No 1 Silver alloy (Ag/Ni)

ELECTRICAL FEATURES

Rated voltage:	max. 600 V
Rated current:	max. 10 A
Rated frequency:	50/60 Hz
Operating current:	AC-15, A600 : U _e = 600 V I _e = 1.2 A AC-15, A600 : U _e = 240 V I _e = 3 A AC-15, A600 : U _e = 120 V I _e = 6 A
Board: Std contacts:	1No + 1Nc


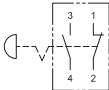
ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Cable gland: for armoured cable or for non-armoured cable

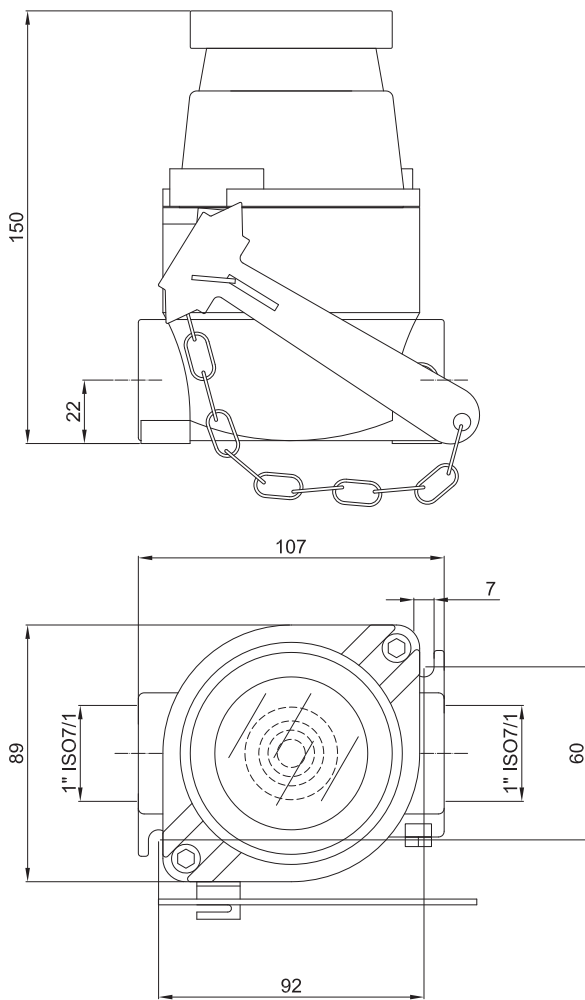
Plug: PLG2B

Ex d IIB marking with CSE housing complete with glass protection, hammer and red button M-0429 with 1No + 1Nc contacts (code **CSEPEA-2M**)






Code	∅ Glass protection mm	Board	Weight kg	 mm
CSCPEA2	53		1,1	260x180x130

DIMENSIONAL DRAWINGS



Dimensions in mm

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Glass protection		Red painted aluminium ring Non-tempered glass	M-0521	
	Cable gland	3/4" ISO 7/1	std. range cable 12-17		