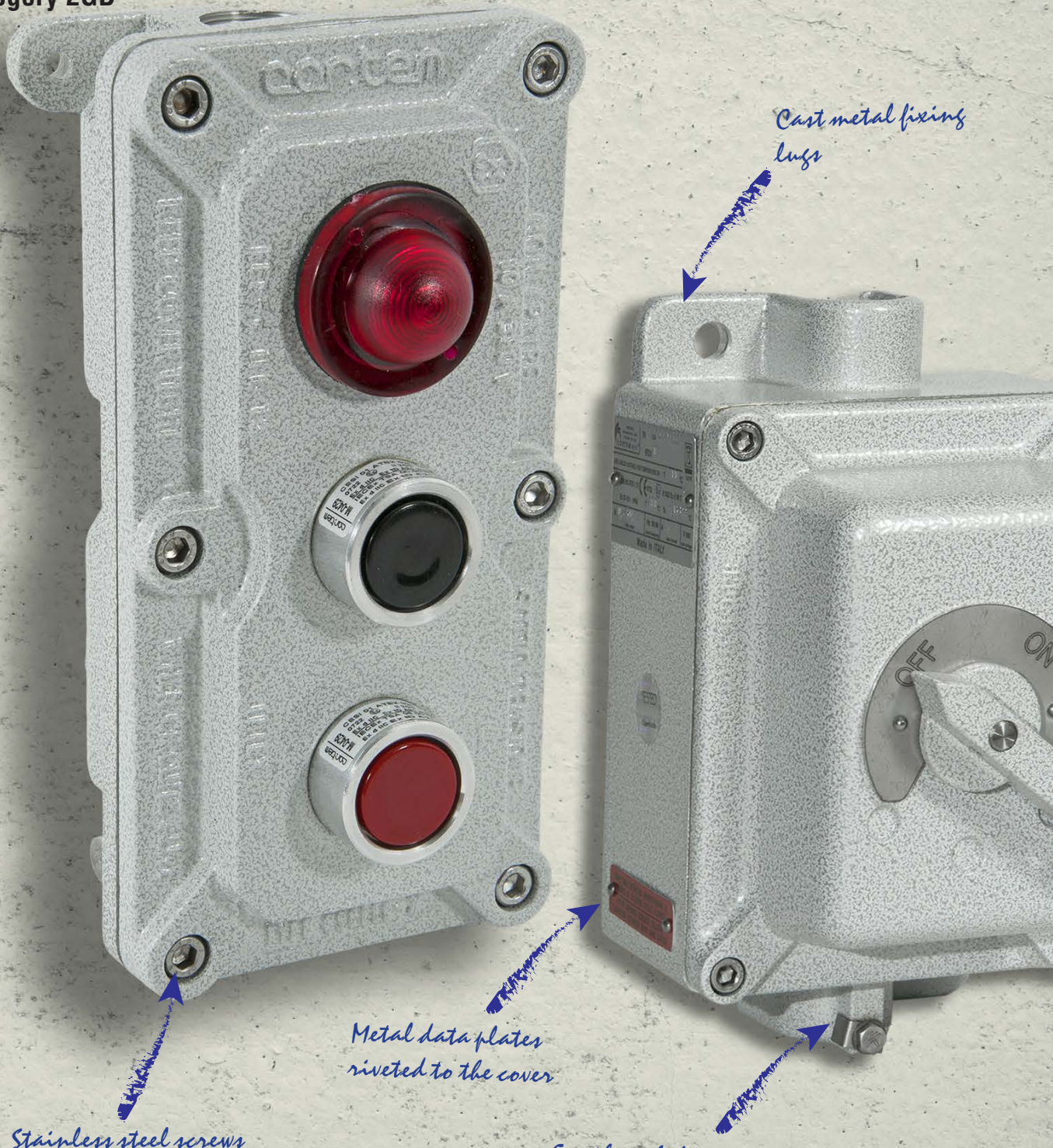
CSE, EFD

Command and control stations

- Group IIB
- Zone 1, 2, 21, 22
- Aluminium alloy housings
- Category 2GD



CORTEM GROUP®

CSE Series... Control and signalling station

The Ex d IIB stations and controllers are suitable for the control and signalling of devices installed both "on board" the machine and remotely (P.E 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.

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.

Sectors of application:

Petroleum refineries

Chemical and petrochemical plants

Onshore plants

Offshore plants

Petroleum loading/ unloading pontoons

Low temperatures

Mining operations

100% produced by Cortem

CERTIFICATION DATA

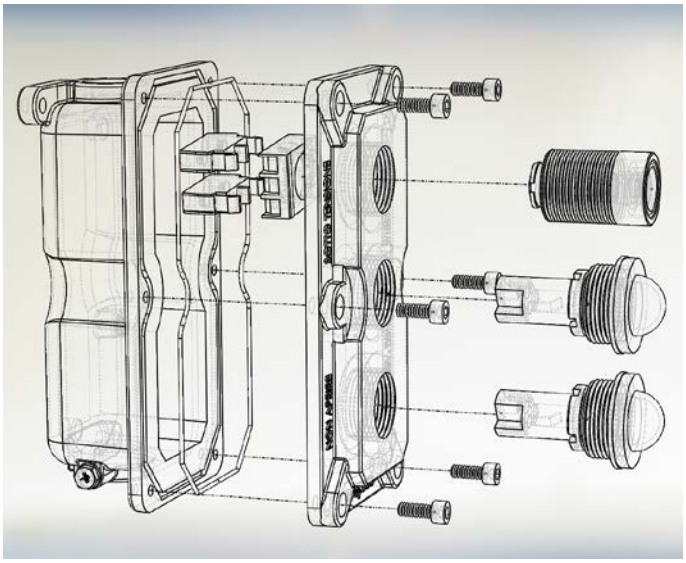
Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	CE 0722 Ex II 2 GD; Ex d IIB T6; Ex tD A21 T85°C			
	CE 0722 Ex II 2 GD; Ex d IIB T5; Ex tD A21 T100°C			
Certificate:	ATEX CESI 03 ATEX 172			
	TR CU AVAILABLE	For all IEC Ex and TR CU certification data, download the certificate from www.cortemgroup.com		
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1:2007, EN 60079-31: 2009 and EUROPEAN DIRECTIVE 2014/34/EU RoHS Directive 2002/95/EC.			
Temperature class:	T6 (Ta +40°C)	T5 (Ta +55°C)		
Temp. Temperature:	-20 °C +55 °C			
	-20 °C +40 °C			
Degree of protection:	IP66			

ATEX Certificate

Use and maintenance instructions

CSE Series... Control and signalling station

EXPLODED 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
Certification label:	Adhesive affixed to external surface
Screws:	Stainless steel
Earth screw:	Internal and external stainless steel
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)

MECHANICAL FEATURES OF CONTROL AND SIGNALLING DEVICES

Pushbutton:	Coloured nylon
Illuminated pushbutton:	Clear coloured polycarbonate
Outer body:	Aluminium
Internal bushing and pin:	Stainless steel
Gaskets:	Acid and hydrocarbon resistant NBR
Station assembly:	Screwed onto cover
Contact assembly:	snap action on a dedicated 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

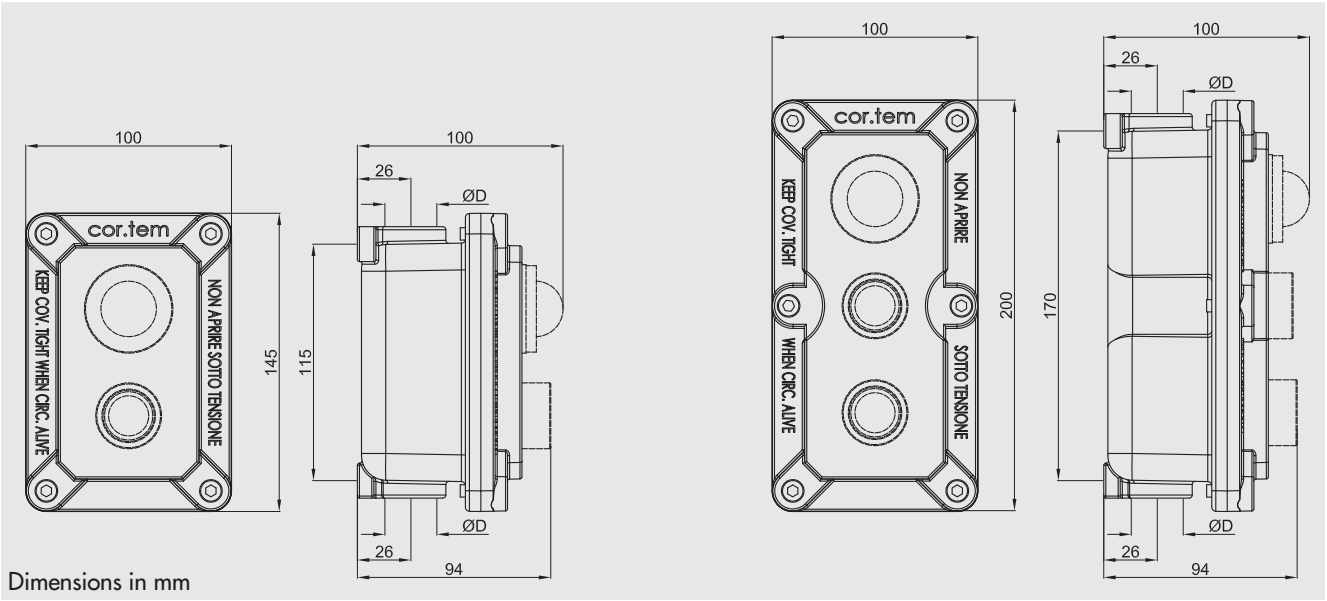
ELECTRICAL FEATURES

Contacts for pushbuttons:	Max. 25A 600 V
Indicator lights:	24/250V, 3W

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

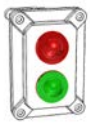
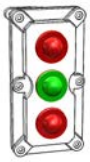
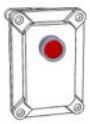
RAL 2004 (Pure orange) internal anti-condensation coating
External polyester coatings in various colours (specify RAL colour)
Cablegland / fittings

DIMENSIONAL DRAWING

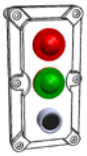
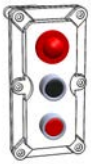
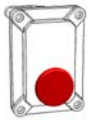


Dimensions in mm

CODE SELECTION TABLE

Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	3/4" ISO7/1 3/4" NPT	Unit with single indicator light	R	1.01	CSE-L CSE-LN
	3/4" ISO7/1 3/4" NPT	Unit with double indicator light	R V	1.12	CSE-LL CSE-LLN
	3/4" ISO7/1 3/4" NPT	Unit with three indicator light	R V R	1.53	CSE-LLL CSE-LLLN
	3/4" ISO7/1 3/4" NPT	Single pushbutton unit	R	0.97	CSE-P CSE-PN
	3/4" ISO7/1 3/4" NPT	Unit with double pushbutton	N R	1.05	CSE-PP CSE-PPN
	3/4" ISO7/1 3/4" NPT	Three pushbutton unit	R V R	1.42	CSE-PPP CSE-PPPN

SELECTION TABLE

Illustration	Entry ØD	Description	Diagram	Weight Kg	Codes
	3/4" ISO7/1 3/4" NPT	Pushbutton unit and indicator light		1.09	CSE-PL CSE-PLN
	3/4" ISO7/1 3/4" NPT	Pushbutton unit plus two indicator lights		1.50	CSE-PLL CSE-PLLN
	3/4" ISO7/1 3/4" NPT	Unit with two pushbuttons plus indicator light		1.60	CSE-PPL CSE-PPLN
	3/4" ISO7/1 3/4" NPT	Break glass emergency pushbutton		1.50	CSEPEA-2 CSEPEA-2N
	3/4" ISO7/1 3/4" NPT	Break glass emergency pushbutton with hammer		1.55	CSEPEA-2M CSEPEA-2MN
	3/4" ISO7/1 3/4" NPT	Emergency mushroom head pushbutton		1.00	CSEPEP-2 CSEPEP-2N

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