



ATEX



Laws and reference standards

Directive ATEX 94/9/CE	Protective equipment and systems intended for use in potentially explosive atmospheres.
Guidelines ATEX 94/9/CE	Guide to the application of the ATEX Directive 94/9 / EC (IV edition))
EN 60079-0:2012+A11:2013	Electrical constructions for explosive atmospheres. Part 0: general requirements
EN 60079-7:2015	Electrical constructions for explosive atmospheres. Part 7: Enhanced security protection mode "e"
EN 60079-31:2014	Electrical equipment for explosive atmospheres due to the presence of combustible dusts. Part 31: Apparatus with protection mode through enclosures "t"

Legenda

II	=	group II (surface)
2	=	category 2 (zone 1/21)
G	=	explosive atmosphere with the presence of gas or vapors
Ex e	=	protection mode "e" (increased security)
IIC	=	gas group
Gc	=	EPL (Gas)
D	=	explosive atmosphere with the presence of dust
Ex tb	=	protection mode "tb" (using enclosures)
IIIC	=	dust group
Dc	=	EPL (dusts)

Product Description

Linear series enclosures are made of stainless steel.

The enclosures are components suitable for housing electrical equipment. The series contains a wide range of sizes. The type of locking and seal guarantee the IP66 protection degree.

The empty enclosures are Ex components that must be used only if they are integrated in ATEX equipments, therefore, the complete compliance to the standard must be granted by the entity responsible of the overall equipment supply. No product of this series has any transparent part. TIG welding process is applied and the welds are watertight.

The polyurethanic seal is provided by means of an automatic dispenser, exact mixing of the components and proper size accuracy is granted by a precision electronic system. The entire production process is provided in accordance and followed by the internal quality system UNIISO 9001-2008 standard.

Linear ATEX series, FDX polyurethanic gasket



The new Linear IP66 series boxes enlarges the range of control panels and provides industry with a large number of solutions in particular in the field of automation and control

AVAILABLE IN N.17 SIZES ACCORDING TO THE FOLLOWING TABLE:

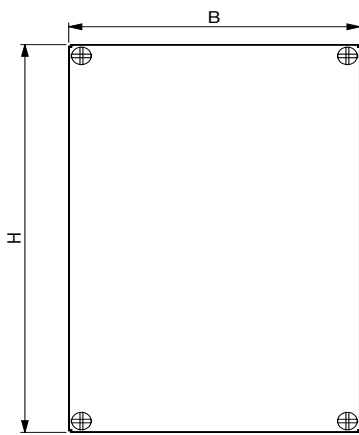
Material:	AISI 304L steel sheet - 12/10 - On request AISI 316L -12/10
Installation - mode:	Wall - Floor
Degree of protection IP	IP66
Degree of protection IK	IK10
Installation - location	internal / outdoor
Max. and min. service T=	-20°C a + 60°C



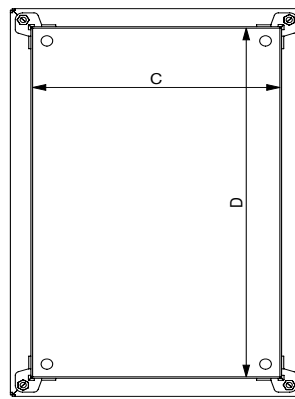
TECHNICAL DETAILS

CODE	Dim.			Volume m ³	Weight Kg	Width available for side drilling A	Front Accessible area		Rear side fixing points	Cover fixing points	Wall fixing distance		Mounting plate		Mounting plate code	Heat load dissipation
	B	H	P				C	D			E	F	G	I		
FDX10109	100	100	90	0,001	0,704	70,5	69,6	69,6	2	4	-	50	-	-	-	5W
FDX10159	100	150	90	0,001	0,946	70,5	69,6	119,6	2	4	-	100	65	115	PIL1015G	6,5W
FDX10209	100	200	90	0,002	1,177	70,5	69,6	169,6	2	4	-	150	65	165	PIL1020G	8W
FDX15159	150	150	90	0,002	1,232	70,5	119,6	119,6	2	4	-	100	115	115	PIL1515G	8W
FDX151512	150	150	120	0,003	1,419	100,5	119,6	119,6	2	4	-	100	115	115	PIL1515G	9,5W
FDX15309	150	300	90	0,004	2,101	70,5	119,6	269,6	2	4	-	250	115	265	PIL1530G	12,5W
FDX153012	150	300	120	0,005	2,376	100,5	119,6	269,6	2	4	-	250	115	265	PIL1530G	13,5W
FDX20209	200	200	90	0,004	1,870	70,5	169,6	169,6	4	4	150	150	165	165	PIL2020G	11,5W
FDX202012	200	200	120	0,005	2,112	100,5	169,6	169,6	4	4	150	150	165	165	PIL2020G	12,5W
FDX20309	200	300	90	0,005	2,552	70,5	169,6	269,6	4	4	150	250	165	265	PIL2030G	14,5W
FDX203012	200	300	120	0,007	2,860	100,5	169,6	269,6	4	4	150	250	165	265	PIL2030G	16W
FDX204012	200	400	120	0,010	3,608	100,5	169,6	369,6	4	4	150	350	165	365	PIL2040G	19W
FDX303012	300	300	120	0,011	3,817	100,5	269,6	269,6	4	4	250	250	265	265	PIL3030G	20W
FDX304015	300	400	150	0,018	5,214	130,5	269,6	369,6	4	4	250	350	265	365	PIL3040G	26W
FDX404015	400	400	150	0,024	6,446	130,5	369,6	369,6	4	4	350	350	365	365	PIL4040G	30W
FDX406015	400	600	150	0,036	9,020	130,5	369,6	569,6	4	6	350	550	357	565	PIL4060G	43W
FDX606020	600	600	200	0,072	13,651	180,5	569,6	569,6	4	8	550	550	557	565	PIL6060G	53W

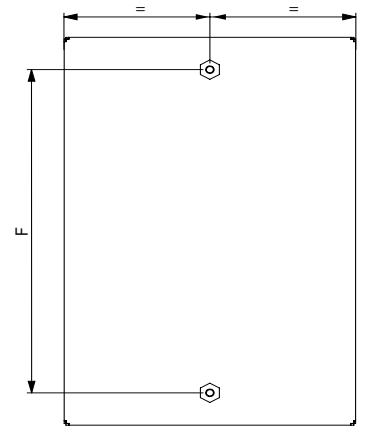
Technical drawings



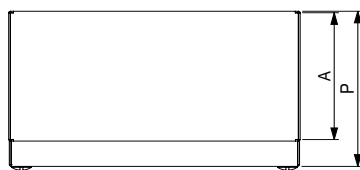
Front view



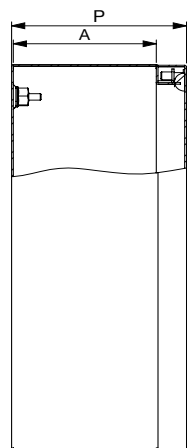
Front view without lid



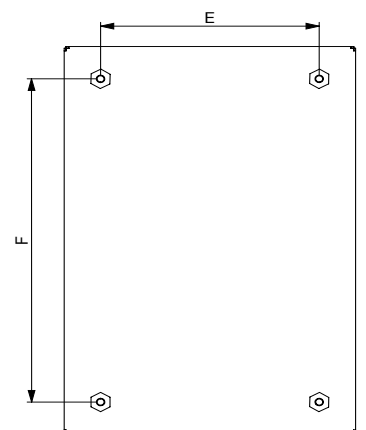
Rear view



View from top



Side view



Rear view



Installation area / substances

The Linear series empty boxes are components designed to be used in the presence of explosive gases or atmospheres of steam and combustible dusts, with the following classification:

Area 1/21

Max e Min. T_{service} = - 20°C a + 60°C

Documents

User guidelines , prescription forms and warnings to ensure safety, as well as the instructions / procedures to be adopted for the maintenance of the Linear series empty boxes are all included and described in the Safety Instructions, to which please refer for all details and information.

Marking

For applications in the area 1/21:

II 2G Ex e IIC Gb
II 2D Ex tb IIIC Db



Linear ATEX series, FDS silicone gasket



The new Linear IP66 series boxes enlarges the range of control panels and provides industry with a large number of solutions in particular in the field of automation and control.

AVAILABLE IN N. 17 SIZES ACCORDING TO THE FOLLOWING TABLE

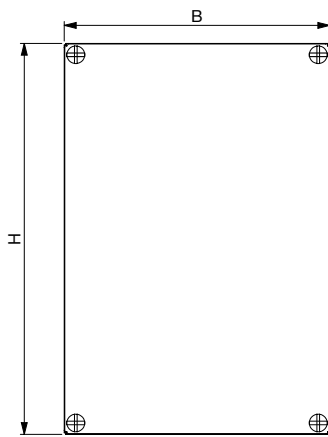
Material:	AISI 304L steel sheet - 12/10	On request AISI 316L -12/10
Installation - mode:	Wall - Floor	
Degree of protection IP	IP66	
Degree of protection IK	IK10	
Installation - location	internal / external	
Max. and min. service T =	- 40°C a +110°C	



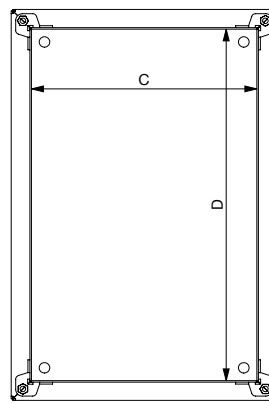
TECHNICAL DETAILS

CODE	Dim.			Weight m ³	Volume Kg	Available width for side drilling		Available width for door drilling		Mounting plate	Wall fixing distance	N° of locks		Heat load dissipation		Mounting plate code	Heat load dissipation
	B	H	P			A	C	D	E			F	G	I			
FDS10109	100	100	90	0,001	0,704	70,5	69,6	69,6	2	4	-	50	-	-	-	-	18,5W
FDS10159	100	150	90	0,001	0,946	70,5	69,6	119,6	2	4	-	100	65	115	PIL1015G	23W	
FDS10209	100	200	90	0,002	1,177	70,5	69,6	169,6	2	4	-	150	65	165	PIL1020G	27W	
FDS15159	150	150	90	0,002	1,232	70,5	119,6	119,6	2	4	-	100	115	115	PIL1515G	28W	
FDS151512	150	150	120	0,003	1,419	100,5	119,6	119,6	2	4	-	100	115	115	PIL1515G	32W	
FDS15309	150	300	90	0,004	2,101	70,5	119,6	269,6	2	4	-	250	115	265	PIL1530G	43W	
FDS153012	150	300	120	0,005	2,376	100,5	119,6	269,6	2	4	-	250	115	265	PIL1530G	48W	
FDS20209	200	200	90	0,004	1,870	70,5	169,6	169,6	4	4	150	150	165	165	PIL2020G	40W	
FDS202012	200	200	120	0,005	2,112	100,5	169,6	169,6	4	4	150	150	165	165	PIL2020G	44W	
FDS20309	200	300	90	0,005	2,552	70,5	169,6	269,6	4	4	150	250	165	265	PIL2030G	51W	
FDS203012	200	300	120	0,007	2,860	100,5	169,6	269,6	4	4	150	250	165	265	PIL2030G	56W	
FDS204012	200	400	120	0,010	3,608	100,5	169,6	369,6	4	4	150	350	165	365	PIL2040G	67W	
FDS303012	300	300	120	0,011	3,817	100,5	269,6	269,6	4	4	250	250	265	265	PIL3030G	70W	
FDS304015	300	400	150	0,018	5,214	130,5	269,6	369,6	4	4	250	350	265	365	PIL3040G	90W	
FDS404015	400	400	150	0,024	6,446	130,5	369,6	369,6	4	4	350	350	365	365	PIL4040G	106W	
FDS406015	400	600	150	0,036	9,020	130,5	369,6	569,6	4	6	350	550	357	565	PIL4060G	148W	
FDS606020	600	600	200	0,072	13,651	180,5	569,6	569,6	4	8	550	550	557	565	PIL6060G	188W	

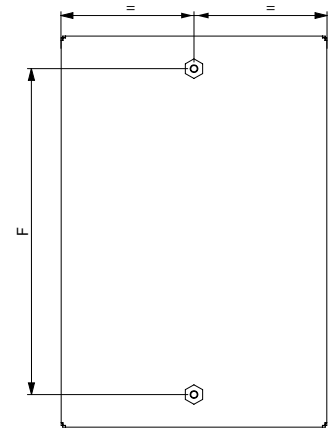
Technical drawings



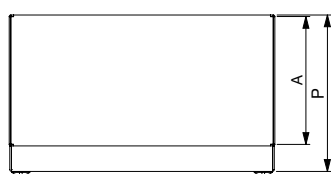
Front view



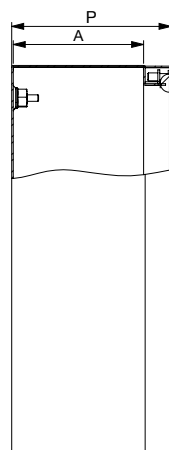
Front view without lid



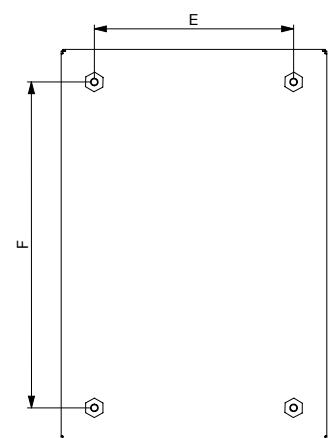
Rear view



View from top



Side view



Rear view



Installation area / substances

The Linear series empty boxes are components designed to be used in the presence of explosive gases or atmospheres of steam and combustible dusts, with the following classification:

Area 1/21

Max e Min. T_{service} = - 40°C a + 110°C

Documents

User guidelines, prescription forms and warnings to ensure safety, as well as the instructions/procedures to be adopted for the maintenance of the Linear series empty boxes are all included and described in the Safety Instructions, to which please refer for all details and information.

Marking

For applications in the area 1/21:

II 2G Ex e IIC Gb
II 2D Ex tb IIIC Db





Product Description

Smart series enclosures are made of stainless steel.

The enclosures are components suitable for housing electrical equipment. The series contains a wide range of sizes. The type of locking and seal guarantees the IP66 protection degree.

The empty enclosures are Ex components that must be used only if they are integrated in ATEX equipments , therefore, the complete compliance to the standard must be granted by the entity responsible of the overall equipment supply. No product of this series has any transparent part. TIG welding process is applied and the welds are watertight.

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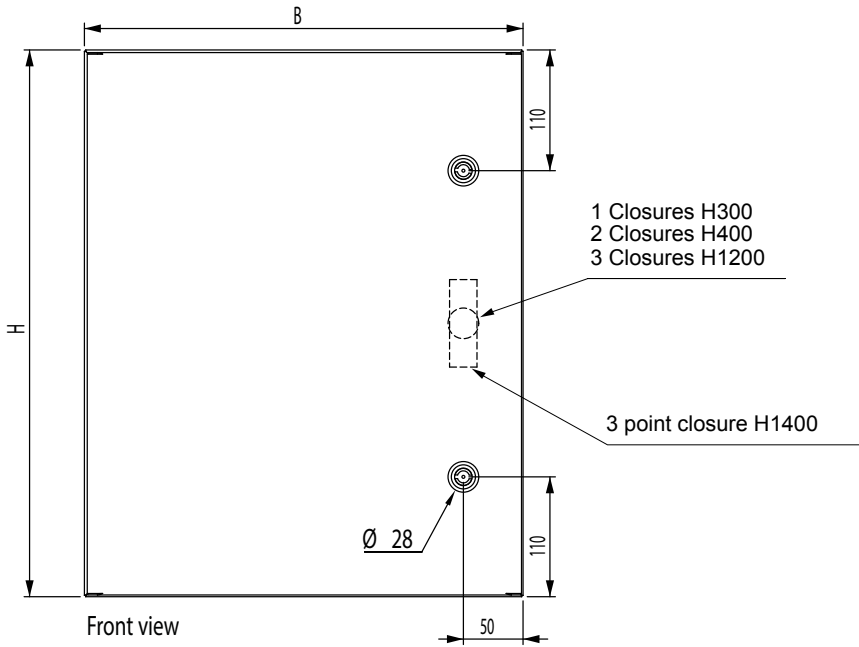
Smart Atex series, FQX polyurethanic gasket



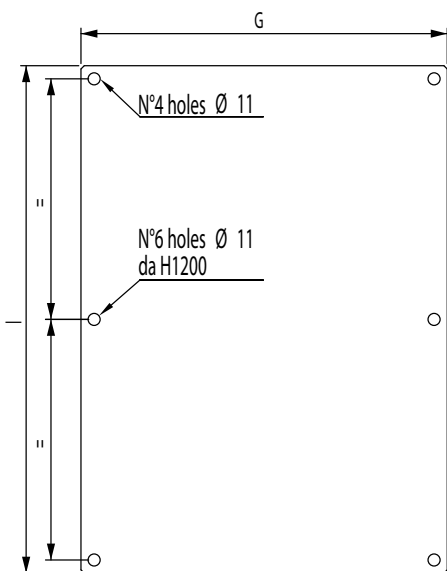
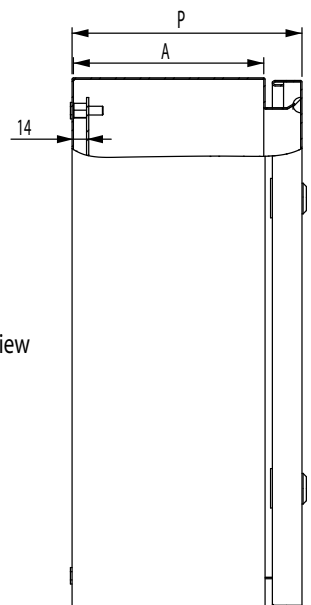
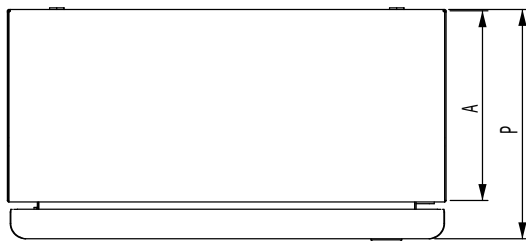
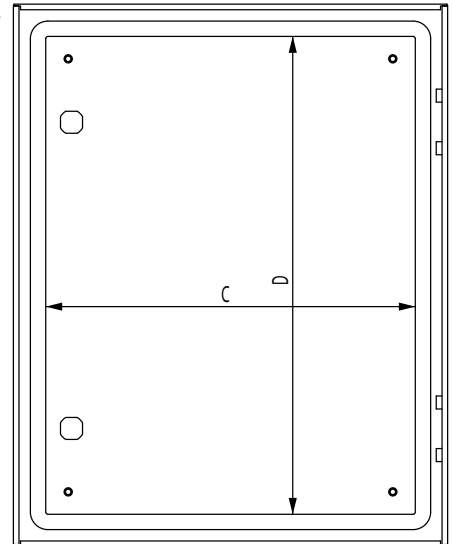
The new Linear IP66 series boxes enlarges the range of control panels and provides industry with a large number of solutions in particular in the field of automation and control.

AVAILABLE IN 43 DIMENSIONAL SOLUTIONS ACCORDING TO THE FOLLOWING TABLE:

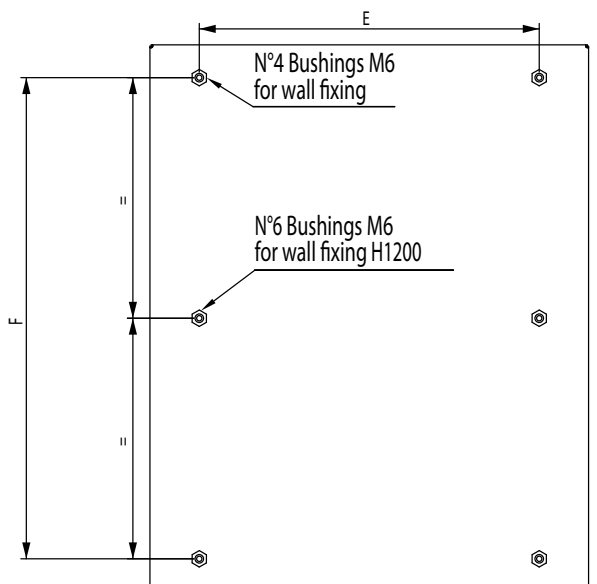
Material :	AISI 304L steel sheet - 12/10 and 15/10	On request AISI 316L -12/10 and 15/10
Installation - mode:	Wall - Floor	
Degree of protection IP	IP66 closed door	
Degree of protection IK	IK10	
Installation - location	internal / external	
Max. and min. service T =	-20°C a + 60°C	



Door internal view



Rear view





TECHNICAL DETAILS

CODE	Dimensions			Weight Kg	Volume m³	Available width for side drilling			Available width for door drilling		Mounting plate		Wall fixing distance		N° of locks	Heat load dissipation
	B	H	P			A	C	D	G	I	E	F				
FQS203015	200	300	150	5,91	0,011	116	237	116	138	268	110	240	1	14W		
FQS303015	300	300	150	7,65	0,016	116	237	116	238	268	210	240	1	18W		
FQS303021	300	300	210	9,71	0,023	176	237	176	238	268	210	240	1	20W		
FQS304015	300	400	150	9,31	0,022	116	337	116	238	368	210	340	1	22W		
FQS304021	300	400	210	11,53	0,030	176	337	176	238	368	210	340	1	25W		
FQS403015	400	300	150	9,39	0,022	116	237	116	338	268	310	240	1	21W		
FQS404021	400	400	210	13,87	0,040	176	337	176	338	368	310	340	2	29W		
FQS405021	400	500	210	16,14	0,050	176	437	176	338	468	310	440	2	35W		
FQS405025	400	500	250	18,01	0,060	216	437	216	338	468	310	440	2	37W		
FQS406021	400	600	210	18,41	0,060	176	537	176	338	568	310	540	2	41W		
FQS454521	450	450	210	16,29	0,051	176	387	176	388	418	360	390	2	35W		
FQS454525	450	450	250	18,16	0,061	216	387	216	388	418	360	390	2	37W		
FQS456025	450	600	250	22,06	0,081	216	537	216	388	568	360	540	2	46W		
FQS505021	500	500	210	18,94	0,063	176	437	176	438	468	410	440	2	41W		
FQS505025	500	500	250	20,91	0,075	216	437	216	438	468	410	440	2	44W		
FQS506021	500	600	210	21,66	0,076	176	537	176	438	568	410	540	2	46W		
FQS507021	500	700	210	24,39	0,088	176	637	176	438	668	410	640	2	52W		
FQS507025	500	700	250	26,56	0,105	216	637	216	438	668	410	640	2	55W		
FQS604021	600	400	210	18,56	0,060	176	337	176	538	368	510	340	2	39W		
FQS604525	600	450	250	22,17	0,081	216	387	216	538	418	510	390	2	44W		
FQS606021	600	600	210	24,92	0,091	176	537	176	538	568	510	540	2	52W		
FQS606025	600	600	250	27,09	0,108	216	537	216	538	568	510	540	2	55W		
FQS606030	600	600	300	29,95	0,130	266	537	266	538	568	510	540	2	58W		
FQS606040	600	600	400	36,59	0,173	366	537	366	538	568	510	540	2	66W		
FQS608021	600	800	210	33,05	0,121	176	737	176	538	768	510	740	2	66W		
FQS608025	600	800	250	35,42	0,144	216	737	216	538	768	510	740	2	68W		
FQS608030	600	800	300	38,52	0,173	266	737	266	538	768	510	740	2	72W		
FQS608040	600	800	400	45,67	0,230	366	737	366	538	768	510	740	2	78W		
FQS609030	600	900	300	47,97	0,194	266	837	266	538	868	510	840	2	77W		
FQS6010030	600	1000	300	51,96	0,216	266	937	266	538	968	510	940	2	82W		
FQS6012030	600	1200	300	59,94	0,259	266	1137	266	538	1168	510	1140	3	99W		
FQS6012040	600	1200	400	70,11	0,346	366	1137	366	538	1168	510	1140	3	110W		
FQS806030	800	600	300	44,14	0,173	266	537	266	738	568	710	540	2	68W		
FQS808030	800	800	300	54,18	0,230	266	737	266	738	768	710	740	2	84W		
FQS8010030	800	1000	300	64,23	0,288	266	937	266	738	968	710	940	2	102W		
FQS8012030	800	1200	300	74,27	0,346	266	1137	266	738	1168	710	1140	3	116W		
FQS8012040	800	1200	400	85,07	0,461	366	1137	366	738	1168	710	1140	3	125W		
FQS6014030	600	1400	300	54,50	0,252	266	1335	266	500	1382	472	1340	1*	110W		
FQS6014040	600	1400	400	59,50	0,336	366	1335	366	500	1382	472	1340	1*	120W		
FQS8014030	800	1400	300	70,00	0,336	266	1335	266	700	1382	672	1340	1*	130W		
FQS8014040	800	1400	400	75,00	0,448	366	1335	366	700	1382	672	1340	1*	132W		
FQS8016030	800	1600	300	77	0,384	266	1535	266	700	1582	672	1540	1*	150W		
FQS8016040	800	1600	400	84	0,512	366	1535	366	700	1582	672	1540	1*	170W		
FQS609025	600	900	250	28	0,19	216	837	216	538	868	510	840	2	74W		

* MULTIPOINT CLOSURE SYSTEM



Installation area / substances

The Smart series empty enclosures are components designed to be used in the presence of explosive gas or vapor atmospheres and combustible dust, with the following classification:

Area 1/21

Max e Min. T_{service} = - 20°C a + 60°C

Documents

User guidelines , prescription forms and warnings to ensure safety , as well as the instructions / procedures to be adopted for the maintenance of the Linear series empty boxes are all included and described in the Safety Instructions, to which please refer for all details and information.

Marking

For applications in the area 1/21:

II 2G Ex e IIC Gb

II 2D Ex tb IIIC Db



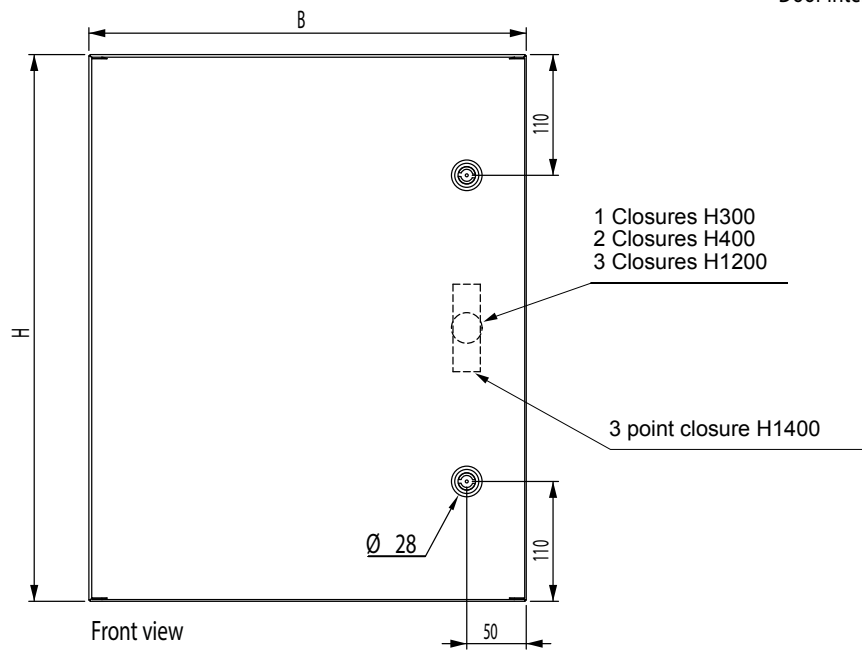
Smart Atex series, FQS silicone gasket



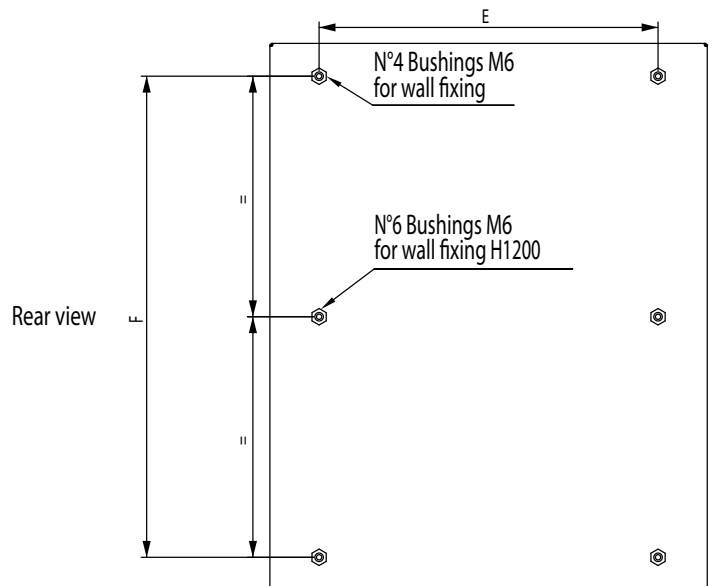
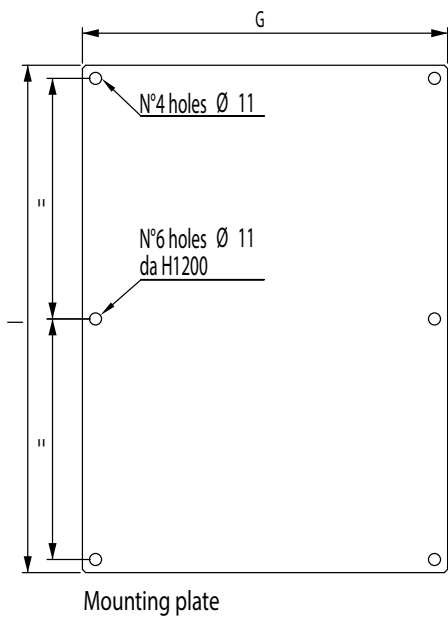
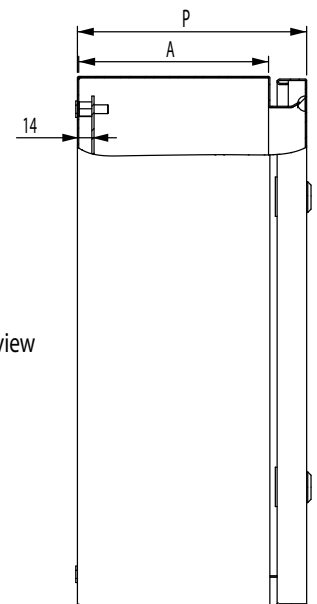
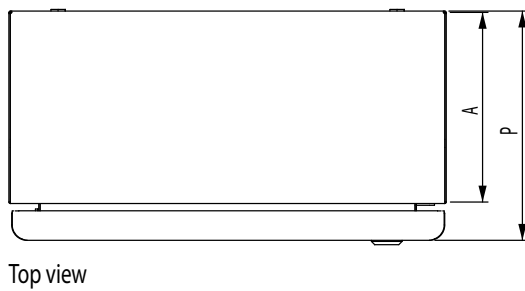
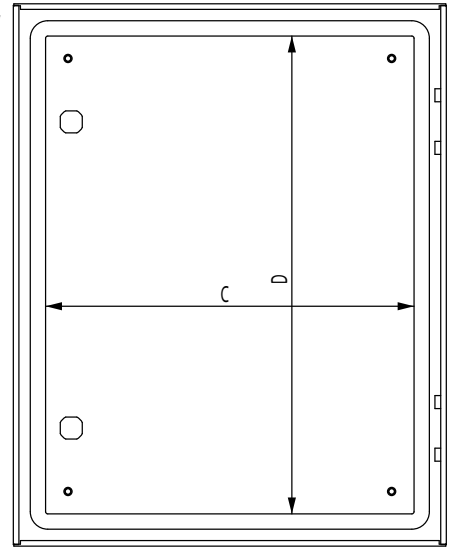
The new Smart IP66 series boxes enlarges the range of control panels and provides industry with a large number of solutions in particular in the field of automation and control.

AVAILABLE IN N. 43 SIZES ACCORDING TO THE FOLLOWING TABLE:

Material:	AISI 304L steel sheet - 12/10 and 15/10	On request AISI 316L -12/10 and 15/10
Installation - mode:	Wall - Floor	
Degree of protection IP	IP66 closed door	
Degree of protection IK	IK10	
Installation - location	internal / external	
Max. and min. service T =	- 40°C a + 110°C	



Door internal view





TECHNICAL DETAILS

CODE	Dimensions			Weight Kg	Volume m³	Available width for side drilling		Available width for door drilling		Mounting plate		Wall fixing distance		N° of locks	Heat load dissipation
	B	H	P			A	C	D	G	I	E	F			
FQS203015	200	300	150	5,91	0,011	116	237	116	138	268	110	240	1	48W	
FQS303015	300	300	150	7,65	0,016	116	237	116	238	268	210	240	1	62W	
FQS303021	300	300	210	9,71	0,023	176	237	176	238	268	210	240	1	71W	
FQS304015	300	400	150	9,31	0,022	116	337	116	238	368	210	340	1	77W	
FQS304021	300	400	210	11,53	0,030	176	337	176	238	368	210	340	1	87W	
FQS403015	400	300	150	9,39	0,022	116	237	116	338	268	310	240	1	74W	
FQS404021	400	400	210	13,87	0,040	176	337	176	338	368	310	340	2	104W	
FQS405021	400	500	210	16,14	0,050	176	437	176	338	468	310	440	2	123W	
FQS405025	400	500	250	18,01	0,060	216	437	216	338	468	310	440	2	131W	
FQS406021	400	600	210	18,41	0,060	176	537	176	338	568	310	540	2	141W	
FQS454521	450	450	210	16,29	0,051	176	387	176	388	418	360	390	2	122W	
FQS454525	450	450	250	18,16	0,061	216	387	216	388	418	360	390	2	130W	
FQS456025	450	600	250	22,06	0,081	216	537	216	388	568	360	540	2	162W	
FQS505021	500	500	210	18,94	0,063	176	437	176	438	468	410	440	2	141W	
FQS505025	500	500	250	20,91	0,075	216	437	216	438	468	410	440	2	150W	
FQS506021	500	600	210	21,66	0,076	176	537	176	438	568	410	540	2	162W	
FQS507021	500	700	210	24,39	0,088	176	637	176	438	668	410	640	2	183W	
FQS507025	500	700	250	26,56	0,105	216	637	216	438	668	410	640	2	194W	
FQS604021	600	400	210	18,56	0,060	176	337	176	538	368	510	340	2	135W	
FQS604525	600	450	250	22,17	0,081	216	387	216	538	418	510	390	2	156W	
FQS606021	600	600	210	24,92	0,091	176	537	176	538	568	510	540	2	183W	
FQS606025	600	600	250	27,09	0,108	216	537	216	538	568	510	540	2	193W	
FQS606030	600	600	300	29,95	0,130	266	537	266	538	568	510	540	2	206W	
FQS606040	600	600	400	36,59	0,173	366	537	366	538	568	510	540	2	232W	
FQS608021	600	800	210	33,05	0,121	176	737	176	538	768	510	740	2	229W	
FQS608025	600	800	250	35,42	0,144	216	737	216	538	768	510	740	2	241W	
FQS608030	600	800	300	38,52	0,173	266	737	266	538	768	510	740	2	275W	
FQS608040	600	800	400	45,67	0,230	366	737	366	538	768	510	740	2	276W	
FQS609030	600	900	300	47,97	0,194	266	837	266	538	868	510	840	2	269W	
FQS6010030	600	1000	300	51,96	0,216	266	937	266	538	968	510	940	2	293W	
FQS6012030	600	1200	300	59,94	0,259	266	1137	266	538	1168	510	1140	3	339W	
FQS6012040	600	1200	400	70,11	0,346	366	1137	366	538	1168	510	1140	3	376W	
FQS806030	800	600	300	44,14	0,173	266	537	266	738	568	710	540	2	238W	
FQS808030	800	800	300	54,18	0,230	266	737	266	738	768	710	740	2	295W	
FQS8010030	800	1000	300	64,23	0,288	266	937	266	738	968	710	940	2	315W	
FQS8012030	800	1200	300	74,27	0,346	266	1137	266	738	1168	710	1140	3	406W	
FQS8012040	800	1200	400	85,07	0,461	366	1137	366	738	1168	710	1140	3	445W	
FQS6014030	600	1400	300	54,50	0,252	266	1335	266	500	1382	472	1340	1*	384W	
FQS6014040	600	1400	400	59,50	0,336	366	1335	366	500	1382	472	1340	1*	426W	
FQS8014030	800	1400	300	70,00	0,336	266	1335	266	700	1382	672	1340	1*	460W	
FQS8014040	800	1400	400	75,00	0,448	366	1335	366	700	1382	672	1340	1*	460W	
FQS8016030	800	1600	300	77	0,384	266	1535	266	700	1582	672	1540	1*	513W	
FQS8016040	800	1600	400	84	0,512	366	1535	366	700	1582	672	1540	1*	585W	
FQS609025	600	900	250	28	0,19	216	837	216	538	868	510	840	2	255W	

* MULTIPOINT CLOSURE SYSTEM



Installation area / substances

The Smart series empty enclosures are components designed to be used in the presence of explosive gases or atmospheres of steam and combustible dusts, with the following classification:

Area 1/21

Max e Min. $T_{\text{service}} = -40^{\circ}\text{C a} + 110^{\circ}\text{C}$

Documents

The instructions for use, the requirements and warnings to be followed to ensure safety and the instructions / procedures to be adopted for the maintenance of the Linear series empty boxes are reported in the safety instructions, to which reference is made for all details and information.

Marking

For applications in the area 1/21:

II 2G Ex e IIC Gb
II 2D Ex tb IIIC Db





Laws and standards reference

Directive ATEX 2014/34/EU	protective equipment and systems intended for use in potentially explosive atmospheres
Guidelines ATEX 2014/34/EU	Guide on the application of directive ATEX 2014/34/EU (April 2016 I Edition)
EN 60079-0:2012/A11:2013	Electrical constructions for explosive atmospheres.
EN 60079-7:2015	Electrical construction for explosive atmosphere part 7 safe way of protection increase security "e"
EN 60079-31:2014	Electrical apparatus for explosive atmospheres due to the presence of combustible dusts. Part 31: devices with protection mode using enclosures "t"

Certificate Number TÜV CY 17 ATEX 0205903 U

Legenda

II 2G Ex eb IIC Gb
 II 2D Ex tb IIIDb (IP66)
 For application in zone 2/22
 Ex eb IIC Gb
 Ex tbIIIC Db (IP66)
 min and max service T= -20°C a +60°C

EXPLOSIVE ATMOSPHERE WITH GAS OR STEAM

II	=	Group ii (surface)
2	=	Category 3 (zone 2)
G	=	Type of explosive atmosphere (presence of gas/steam)
Ex eb	=	Protection mode "e" (increased safety)
IIC	=	Group of gas
Gc	=	Epl (gas)

EXPLOSIVE ATMOSPHERE WITH PRESENCE OF COMBUSTIBLE POWDERS

II	=	Group ii (surface)
2	=	Category 3 (zone 22)
D	=	Type of explosive atmosphere (presence of powders)
EXTB		PROTECTION MODE "TB" (WITH ENCLOSURES)
IIIC		POWDERS GROUP - CONDUCTIVE POWDERS
DC		EPL (POWDERS)



FCS Series: Atex Compact stainless steel 1 door cabinet

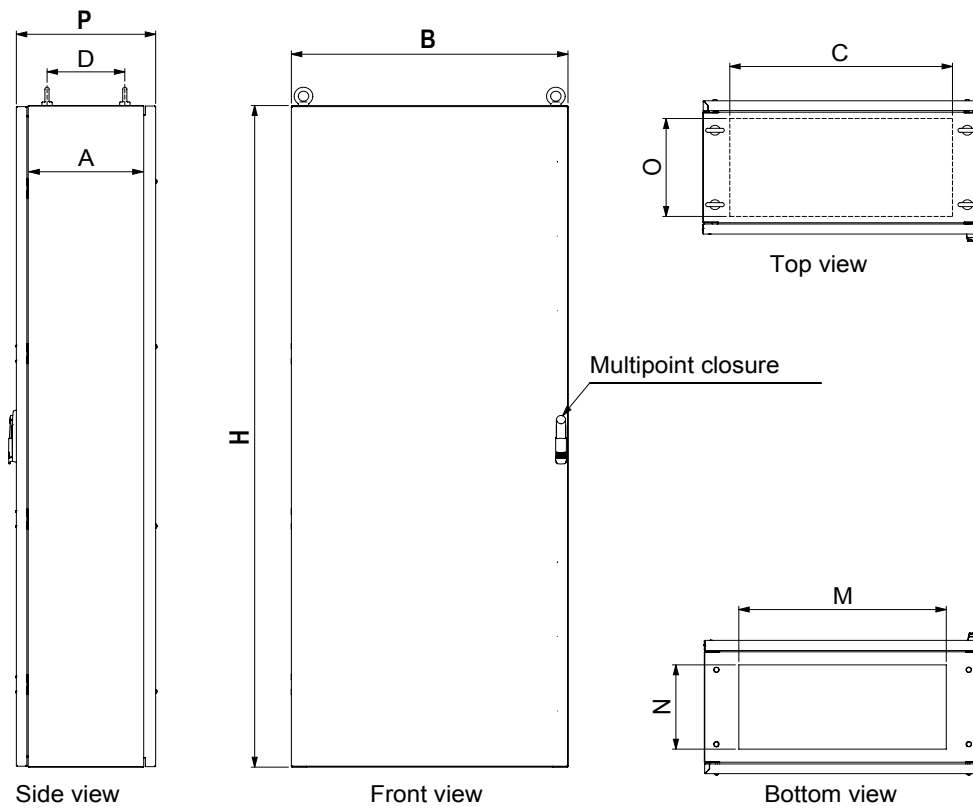
The FCS range of stainless steel cabinets has been made in compliance with the most recent international standards, with absolutely innovative construction concepts of solidity, protection and cleanliness. Available in the 1 door configuration up to L1000mm. The IP66 protection degree, the removable and replaceable back with a scotch-brite door and finish characterize the FCS range as the ideal solution for applications in Atex area 2-22. The plinth H = 100 (H = 200 on request) is supplied as standard.



DEGREE OF PROTECTION AND REFERENCE STANDARDS IP66 IK10



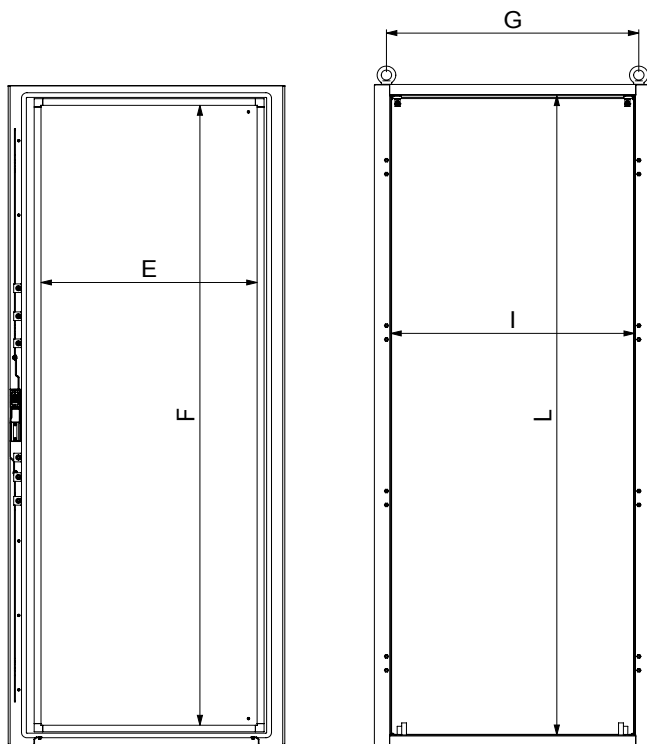
Technical drawings



Side view

Front view

Bottom view



Inner door view

Front view without door



TECHNICAL DETAILS

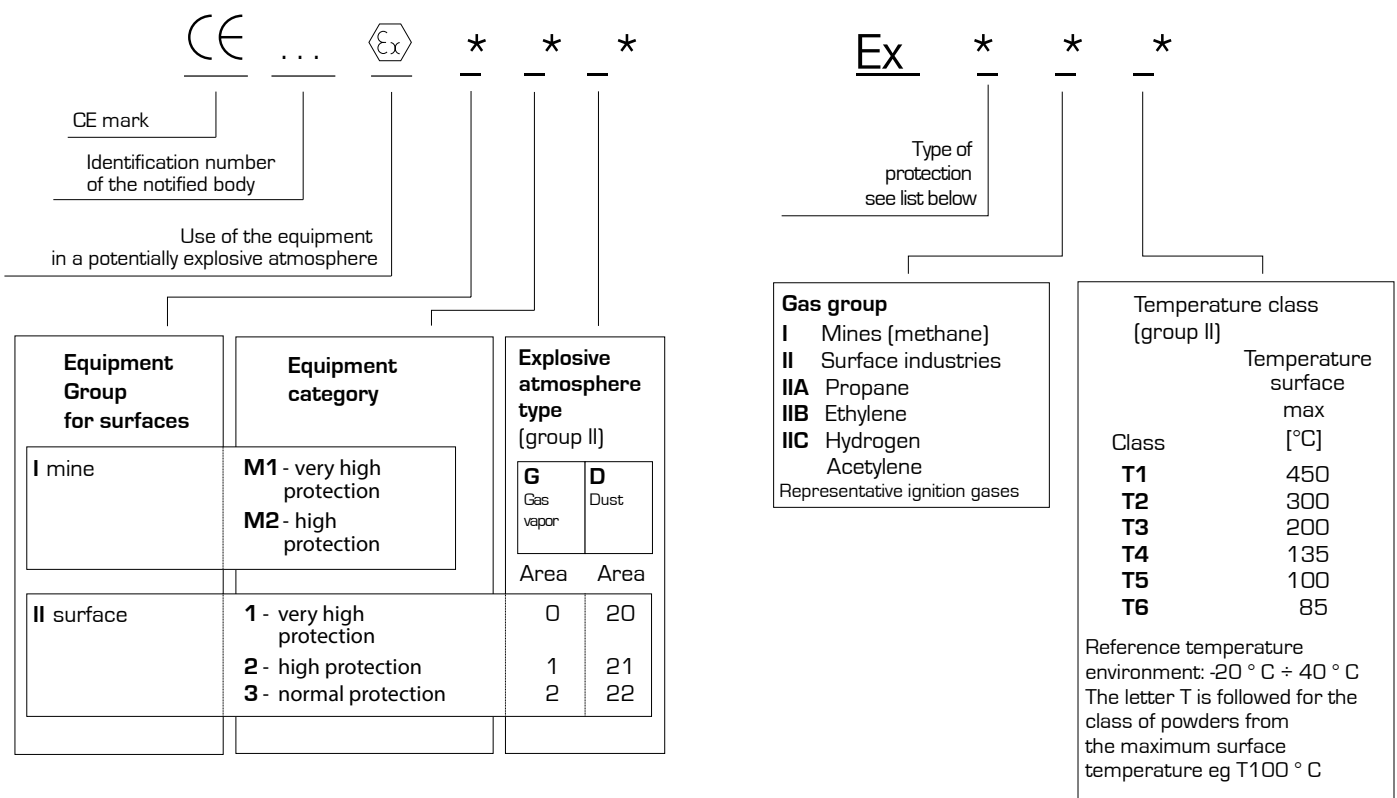
CODE	Dimensions			Weight Kg	Volume m³	Available area for door drilling		Available with for side drilling A	Available area for flange drilling		Available area for roof drilling		Accessible area front of cabinet		Eyebotts distance		Heat dis- sipation load
	B	H	P			M	N		M	N	C	O	I	L	G	D	
FCS4018040	410	1800	400	75	0,288	220	1640	330	100	250	190	295	280	1715	344	250	135W
FCS4018050	410	1800	500	80	0,540	220	1640	430	100	350	190	395	280	1715	344	350	155W
FCS4018060	410	1800	600	90	0,432	220	1640	530	100	450	190	495	280	1715	344	450	173W
FCS6018040	610	1800	400	95	0,432	420	1640	330	300	250	390	295	480	1715	544	250	173W
FCS6018050	610	1800	500	105	0,540	420	1640	430	300	350	390	395	480	1715	544	350	194W
FCS6018060	610	1800	600	115	0,648	420	1640	530	300	450	390	495	480	1715	544	450	214W
FCS8018040	810	1800	400	125	0,576	620	1640	330	500	250	590	295	680	1715	744	250	211W
FCS8018050	810	1800	500	130	0,720	620	1640	430	500	350	590	395	680	1715	744	350	233W
FCS8018060	810	1800	600	135	0,864	620	1640	530	500	450	590	495	680	1715	744	450	255W
FCS10018040	1010	1800	400	140	0,720	820	1640	330	700	250	790	295	880	1715	994	250	248W
FCS10018050	1010	1800	500	150	0,900	820	1640	430	700	350	790	395	880	1715	994	350	272W
FCS10018060	1010	1800	600	160	1,080	820	1640	530	700	450	790	495	880	1715	994	450	296W
FCS4020040	410	2000	400	85	0,320	220	1840	330	100	250	190	295	280	1915	344	250	149W
FCS4020050	410	2000	500	90	0,400	220	1840	430	100	350	190	395	280	1915	344	350	171W
FCS4020060	410	2000	600	100	0,480	220	1840	530	100	450	190	495	280	1915	344	450	227W
FCS6020040	610	2000	400	110	0,480	420	1840	330	300	250	390	295	480	1915	544	250	190W
FCS6020050	610	2000	500	115	0,600	420	1840	430	300	350	390	395	480	1915	544	350	213W
FCS6020060	610	2000	600	120	0,720	420	1840	530	300	450	390	495	480	1915	554	450	253W
FCS8020040	810	2000	400	130	0,640	620	1840	330	500	250	590	295	680	1915	744	250	231W
FCS8020050	810	2000	500	140	0,800	620	1840	430	500	350	590	395	680	1915	744	350	255W
FCS8020060	810	2000	600	150	0,960	620	1840	530	500	450	590	495	680	1915	744	450	279W
FCS10020040	1010	2000	400	155	0,800	820	1840	330	700	250	790	295	880	1915	944	250	272W
FCS10020050	1010	2000	500	160	1,000	820	1840	430	700	350	790	395	880	1915	944	350	298W
FCS10020060	1010	2000	600	165	1,200	820	1840	530	700	450	790	495	880	1915	944	450	323W



Fast guide Atex

Directive ATEX94/9/CE
Electrical and non-electrical equipment and degree of protection

Equipment marks



CLASSIFICATION OF THE EQUIPMENT

Equipment for mines - Group I

Category M1

Protection level: Very high. Equipment that can work even in the presence of an explosive atmosphere

Categoria M2

High protection level Equipment that must be put off voltages in the presence of an explosive atmosphere

Equipment for surface area - Group II

Category 1

Protection level: Very high
Presence of explosive atmosphere: always, often and for long periods

Category 2

Protection level: high
Presence of explosive atmosphere: probable

Category 3

Protection level: normal
Presence of explosive atmosphere: low possibility and for a short time

* For completeness, refer to the ATEX Directive 94/9 / EC

RULES AND TYPES OF PROTECTION

Electrical equipment for gas (G)

EN Standard Code	Category
General rules	60079-0
Immersion in oil	o 60079-6 M2-2G
Internal overpressure	p 60079-2 M2-2G
Dust filling	q 60079-5 M2-2G
Explosion-proof enclosures	d 60079-1 M2-2G
Increased security	e 60079-7 M2-2G
Intrinsic safety	ia 60079-11 M1-1G
Intrinsic safety	ib 60079-11 M2-2G
Encapsulation	m 60079-18 M2-2G
Protection type "n"	n 60079-15 3G
Category 1G	60079-26 1G
Category M1	50303 M1

Electrical equipment for dust (D)

Dust-proof enclosure	Ex tD	EN 61241-1	1D
Protection with pressurization	Ex pD	EN 61241-4	2D
Protection with intrinsic safety	Ex iD	EN 61241-11	1D
Protection with encapsulation	Ex mD	EN 61241-18	1D