Ex db IIC INSTRUMENT ENCLOSURES AND TERMINAL BOXES

INSTRUMENT ENCLOSURES

TERMINAL BOXES

Instrument and terminal boxes are used to contain instruments, measurement devices and terminals.
Suitable to be used in potentially explosive areas zone 1,21 and zone 2,22 these products are available both in copper-free aluminium or SS316L material.

Combustion and Energy Ex db IIC enclosures are ATEX, IECEx, Tr Cu and INMETRO certified.

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rev_240712

INSTRUMENT ENCLOSURES
TECHNICAL SPECIFICATIONS

MATERIAL

Enclosure material:	Copper free aluminium or stainless steel AISI 316L

Ex CODE

Ex marking:	Ex II 2 GD Ex db IIC T6 ... T4 Gb Ex tb IIIC T85°C ... T135°C Db

MECHANICAL FEATURES

Degree of protection:	IP66
Temperature:	-50°C to +85°C
Threaded holes:	ISO Metric / ANSI B1.20.1 NPT

ELECTRICAL FEATURES

Max. rated voltage:	690 VAC / VDC
Max. rated impulse voltage:	8 kV (max. 10 sec.)
Frequency:	50 / 60 Hz
Maximum rated current:	109 A
Max. rated cross section:	35 sqmm

Ex FEATURES

Standards:	EN 60079-0 / EN 60079-1 / EN 60079-31 IEC 60079-0 / IEC 60079-1 / IEC 60079-31
Suitable for:	Zone 1 / Zone 2 / Zone 21 / Zone 22

CERTIFICATES

Certificates Number:

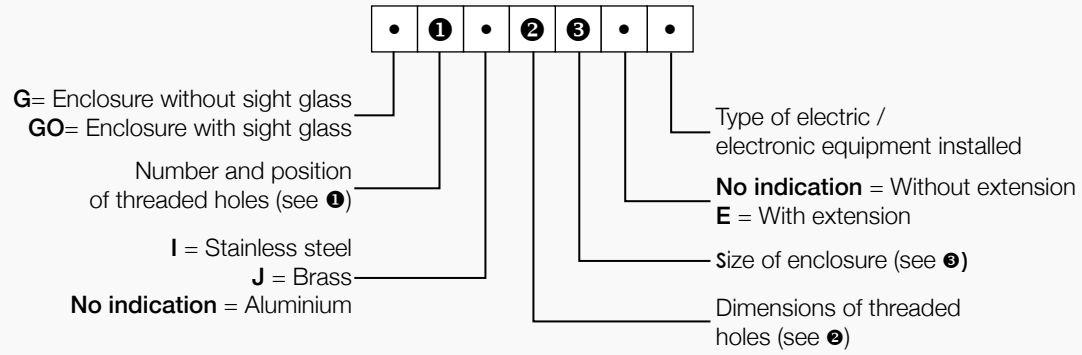
- Ex FTZÚ 15 ATEX 0182X
- IECEx FTZÚ 15.0035X
- EAC TR Cu certificate available upon request
- INMETRO certificate available upon request

NOTE

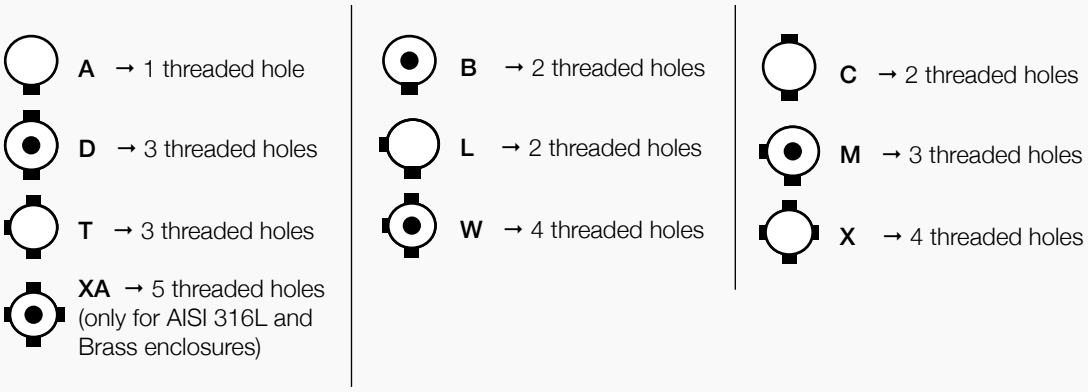
Certificate for Group I available.

INSTRUMENT ENCLOSURES TECHNICAL SPECIFICATIONS

TYPE DESIGNATION OF INSTRUMENT ENCLOSURES



❶ Number and position of threaded holes (for Stainless steel and brass instument enclosures):



❷ Dimensions of threaded holes:

1= 1/2" NPT
2= 3/4" NPT
3= 1" NPT
4= 1.1/4" NPT
5= 1.1/2" NPT
6= 2" NPT

20= M20x1.5
25= M25x1.5
32= M32x1.5
40= M40x1.5
50= M50x1.5
63= M63x1.5

K = Mixed
In case of entries having different threading and/ or dimensions on the same enclosure, the marking will include the letter "K" and the layout of the threaded holes will be attached to the operating and maintenance manual.

❸ Size of the enclosures (all dimensions ± 3 mm):

AISI 316L and Brass Enclosures

4 = Ø 71 mm;
6 = Ø 90 mm;
6A = Ø 90 mm;
7 = Ø 112 mm;
8 = Ø 131 mm ;
9 = Ø 146 mm

Aluminium Enclosures

4 = Ø 71mm;
6 = Ø 90 mm;
6A = Ø 90 mm;
8 = Ø 130 mm;
9 = Ø 145 mm ;

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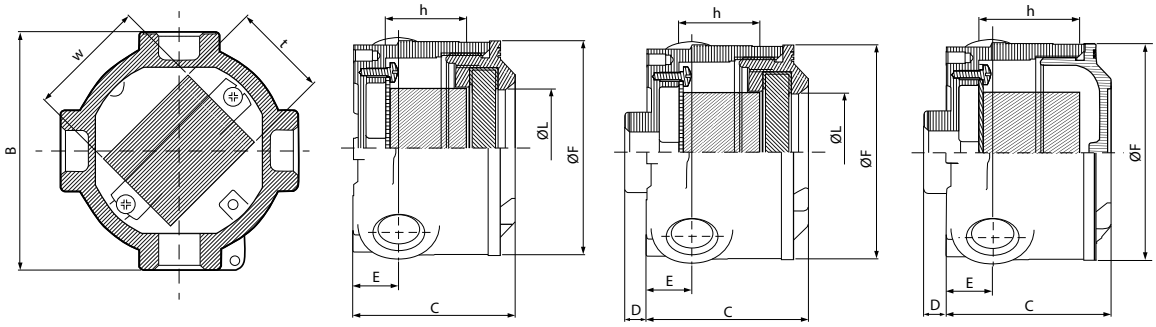
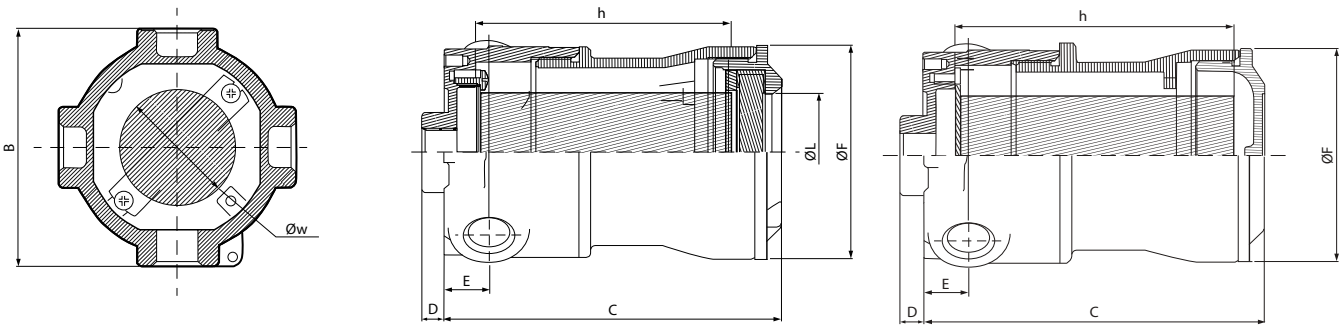
AISI 316L INSTRUMENT ENCLOSURES DRAWINGS AND DIMENSIONS



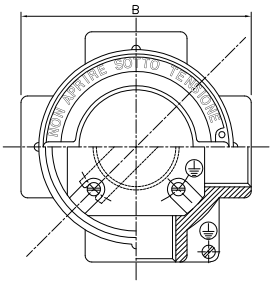
WITH / WITHOUT WINDOW AND WITHOUT EXTENSION										
❸ Size	External dimensions (mm)						Max. dimensions apparatus (mm)			
	B	C	D	E	ØF	ØL	h	h (no window)	w	t
4	80	69	9	20	71	30	30	40	30	28
6	100	68	9,5	22,5	90	50	30	40	50	35
6A	100	73	9,5	22,5	90	50	35	45	50	35
7	126	82	11	24	112	65	40	50	65	45
8	145	99	9,5	27	131	70	55	65	70	60
9	161	115	9,5	27	146	85	65	80	85	65

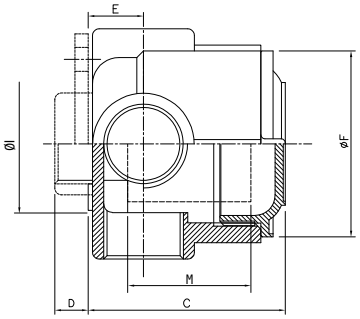


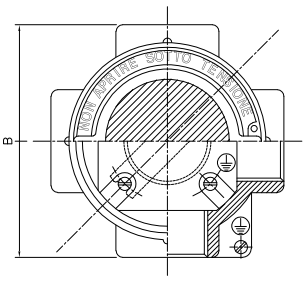
WITH / WITHOUT WINDOW AND WITH EXTENSION									
❸ Size	External dimensions (mm)						Max. dimensions apparatus (mm)		
	B	C	D	E	ØF	ØL	h	h (no window)	Øw
4	80	129	9	20	71	30	75	90	30
6	100	118 ÷ 143	9,5	22,5	90	50	70 ÷ 95	80 ÷ 105	50
6A	100	123 ÷ 148	9,5	22,5	90	50	75 ÷ 100	85 ÷ 110	50
7	126	132 ÷ 172	11	24	112	65	80 ÷ 120	90 ÷ 130	65
8	145	149 ÷ 189	9,5	27	131	70	90 ÷ 130	65	70
9	161	165 ÷ 215	9,5	27	146	85	100 ÷ 150	80	85

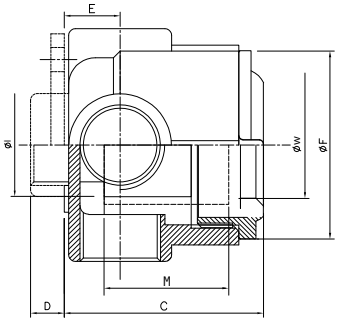
Dimensions and weights are approximate and subject to change without notice.

ALUMINIUM INSTRUMENT ENCLOSURES
DRAWINGS AND DIMENSIONS

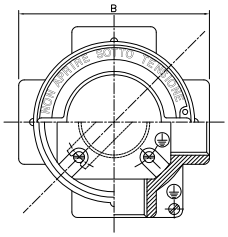


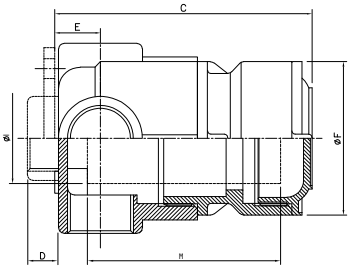


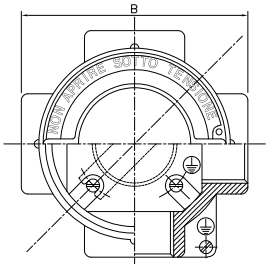


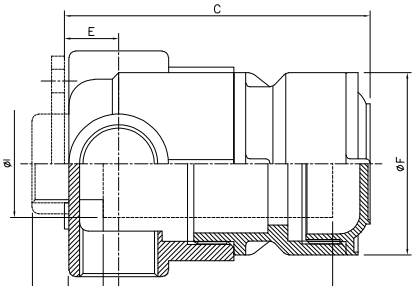


WITH / WITHOUT WINDOW AND WITHOUT EXTENSION									
❸ Size	External dimensions (mm)						Max. dimensions apparatus		
	B	C	D	E	ØF	Øw	M (mm)	M (mm) (no window)	ØI
4	80	77	9	20	70	38	22	49	44
6	100	78	8	20	90	50	23	49	64
6A	100	86	8	23	90	50	30	57	64
8	138	113	14	32	130	82	46	80	96
9	150	126	14	36	145	96	52	90	106









WITH / WITHOUT WINDOW AND WITH EXTENSION									
❸ Size	External dimensions (mm)						Max. dimensions apparatus		
	B	C	D	E	ØF	Øw	M (mm)	M (mm) (no window)	ØI
4	80	121	9	20	70	38	82	103	44
6	100	141	8	20	90	50	98	123	64
6A	100	148	8	23	90	50	105	131	64
8	138	185	14	32	130	82	138	168	96
9	150	205	14	36	145	96	153	188	106

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