



# Palazzoli

ATEX catalogue 2015

## SOLUTIONS FOR EXPLOSIVE ATMOSPHERES



# Palazzoli

Since 1904

In 1904 PALAZZOLI began its activity in Brescia when electrical energy was first used in the industry. The Company is specialized in manufacturing electrical appliances with safety features that are protected and watertight, for industrial, marine, civil, agricultural and OEM applications. The offer of PALAZZOLI extends into a wide range of finished products, to which special customized solutions are specifically developed in accordance to the needs of end-users. The products conform to technical and safety standards and are manufactured with very high quality materials, in metal and self-extinguishing isolated thermosetting (GRP) and thermoplastic. PALAZZOLI undertakes the commitment towards all end-users to offer reliable, safe and lasting quality products. This task, as in the last century of activity, continues to honour the trust and respect that customers have posted in its trademark.



RESISTANCE, LONG LIFE AND RELIABILITY FOR  
SUSTAINABLE PRODUCT DEVELOPMENT AND  
APPLICATION

LEADING EXPERIENCE  
AND KNOW-HOW IN  
ELECTROTECHNOLOGY

HIGH QUALITY  
PERFORMANCE OF  
TECHNICAL SOLUTIONS



MADE IN PALAZZOLI

Palazzoli obtained from IMQ the certificate

**IMQ 07 ATEXQ 001**

guaranteeing that its ATEX equipments  
can be used in hazardous areas for the  
presence of gases, vapours, mists or dusts.

# Tested Quality

Palazzoli ATEX equipments are designed and manufactured in order to avoid the risk of ignition.

Each equipment is approved and certified by TÜV SÜD in compliance with the Directive 94/9/EC and 2014/34/UE which guarantees the conformity for installation in hazardous areas. Each enclosure of ATEX equipments, in compliance with EN 60079-0 standards, is tested as follows:



- 1) Operating temperature  
in order to determine the maximum operating temperature of the equipment.



- 2) Temperature Endurance Test  
in climatic room at the maximum service temperature measured with the previous test with 90% humidity for 4 weeks, and at the minimum temperature  $-25^{\circ}\text{C} \div -30^{\circ}\text{C}$  for one day.



- 3) Impact test  
tested at  $+10^{\circ}\text{C} \div 15^{\circ}\text{C}$  and  $-5^{\circ}\text{C} \div 10^{\circ}\text{C}$  of the maximum operating temperature.






- 4) IPXX protection rating test  
(dust and water).



- 5) Tests on specific methods of protection  
(pressure test, restricted breathing test, dielectric tests).

The technical characteristics of the equipments included in this catalogue, are defined after the sequence of the above reported tests, in the indicated order and on the same sample piece.

# Certified Quality

 Organismo autorizzato n. 0051 con D.M. 23 marzo 2004, D.M. 2 luglio 2007 e D.M. 1 Marzo 2009		 Emissione # / Issued on ..... : 2007-01-11 Data di aggiornamento / Updated on .... : 2009-05-12 Sostituisce / Replaces ..... : 2007-01-11		
<b>Notifica / Notification</b>				
[1]	<b>Direttiva 94/9/CE</b> <b>Notifica della Garanzia di Qualità</b> <b>dei Prodotti</b>		<b>Directive 94/9/CE</b> <b>Product Quality Assurance</b> <b>Notification</b>	
[2]	Apparecchiature o Sistemi di Protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive - Direttiva 94/9/CE / Equipment or Protective System intended for use in potentially explosive atmospheres - Directive 94/9/EC			
[3]	<b>Numero della Notifica / Notification number</b> <b>IMQ 07 ATEXQ 001</b>			
[4]	<b>Tipo di prodotto o componente /</b> <b>Equipment or component type</b> Vedere pagina 2 / see page 2		<b>Modo di protezione / Type of protection</b> <b>II 2 D</b>	
[5]	<b>Richiedente, Costruttore o Rappresentante</b> <b>nella Comunità / Applicant, Manufacturer or</b> <b>Authorised representative in the Community</b> <b>PALAZZOLI S.p.A.</b>		<b>[6] Costruttore / Manufacturer</b> <b>PALAZZOLI S.p.A.</b>	
[7]	L'IMQ, organismo notificato n. 0051, in conformità all'articolo 9 della Direttiva 94/9/CE del Consiglio dell'Unione Europea del 23 Marzo 1994, notifica che il costruttore ha un Sistema di Qualità della Produzione conforme all'Allegato VII della Direttiva.		IMQ, notified body n. 0051, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, notifies that the manufacturer has a Production Quality System which complies to Annex VII of the Directive.	
[8]	Questa notifica è basata sul rapporto di verifica ispettive n. 434G00006/2 rilevato in data 10.01.2007.		This notification is based on audit report no. 434G00006/2 with date 10.01.2007.	
Questa notifica può essere ritirata se il costruttore non rispetta più i requisiti dell'Allegato VII / This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex VII I risultati delle verifiche periodiche del Sistema di Qualità sono parte di questa notifica / Result of periodical re-assessment of the Quality System are a part of this notification				
[9]	La presente notifica può essere ritirata se il costruttore non soddisfa le verifiche periodiche di Garanzia Qualità dei Prodotti.		This notification can be withdrawn if the manufacturer does not satisfy the Product Quality Assurance re-assessment.	
[10]	In accordo con l'articolo 10 paragrafo 1 della Direttiva 94/9/CE la marcatura CE deve essere seguita dal n. 0051 che identifica l'organismo notificato designato al controllo della Produzione.		According to Article 10 [1] of the Directive 94/9/EC the CE marking shall be followed by the identification n. 0051 identifying the notified body involved in the Production control stage.	
 IMQ S.p.A. - Via Quintano, 43 - 20130 Milano				
Questo certificato, allegato incluso, può essere riprodotto solo integralmente e senza alcuna variazione. / This certificate may only be reproduced in its entirety and without any change, schedule included.				
Mod. 1083/1				

In compliance with the Directive 94/9/CE of the European Parliament dated 23<sup>rd</sup> March 1994, IMQ notified that Palazzoli has a production quality system according to the Annex VII of the Directive.

Palazzoli products for Zone 1, 2, 21, 22 are approved by TÜV SÜD and have IECEx certification.

 <b>CERTIFICATE</b>	
[1]	<b>EC-TYPE EXAMINATION CERTIFICATE</b>
[2]	<b>Equipment or Protective System intended for use in potentially explosive atmospheres</b> <b>Directive 94/9/EC</b>
[3]	EC-Type Examination Certificate number: <b>TÜV IT 12 ATEX 065 X</b>
[4]	Component: <b>Oval and round lighting fixtures for fixed installation</b> <b>Series RINO-EX</b>
[5]	Manufacturer: <b>Palazzoli S.p.a.</b>
[6]	Address: <b>Via Federico Palazzoli, 31</b> <b>25128 Brescia (BS) - ITALY</b>
[7]	This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
[8]	TÜV Italia, notified body no. 0948 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.  The examination and test results are recorded in confidential report no. R 12 EX 036.
[9]	Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  <b>EN 60079-0:2009; EN 60079-15:2010; EN 60079-31:2009</b>
[10]	If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
[11]	This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
[12]	The marking of the equipment or protective system shall include the following:   <b>II 3G Ex nA IIC 145/160/190 °C (T3) Gc</b> <b>II 2D Ex Ib IIIC T 75/85/90 °C Db IP65</b>
This certificate may only be reproduced in its entirety and without any change, schedule included. <b>Emission date: 30<sup>th</sup> November 2012</b>	
 Approved Giuseppe Oliva Industrial Service Director	
TÜV Italia has been authorized by Italian government to operate as a notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres with C.M. 0803/2007. This document without signature and official stamp shall not be valid. In case of misuse, Italian law shall prevail. This document is internally administered under no. 222423.	
TÜV Italia • Gruppo TÜV SÜD • Via Carducci 125, Pal. 23 • 20099 Sesto San Giovanni (MI) • Italia • www.tuv.it <b>TÜV</b>	

## PLUGS AND INTERLOCKED SOCKETS



INDUSTRIAL PLUGS IN ANTISTATIC MATERIAL 6



INTERLOCKED SOCKETS  
IN ANTISTATIC THERMOSETTING (GRP) 8  
IN ALUMINIUM ALLOY 14

## BOXES AND CABLE GLANDS



BOXES  
IN ANTISTATIC THERMOSETTING (GRP) 18  
IN ALUMINIUM ALLOY 20



CABLE GLANDS AND ADAPTORS 24

## CONTROL AND SIGNALLING DEVICES



ROTARY CONTROL DEVICES  
IN ANTISTATIC THERMOSETTING (GRP) 28  
IN ALUMINIUM ALLOY 30



SIRENS AND BELLS 32

## SMALL CONTROL DEVICES



SMALL CONTROL DEVICES IN ANTISTATIC THERMOSETTING (GRP)	34
IN ALUMINIUM ALLOY	36

## LIGHTING DEVICES



OVAL AND ROUND BULKHEAD LAMP IN ALUMINIUM ALLOY	38
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LIGHTING FIXTURES IN STAINLESS STEEL	40
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# CEE-EX Series

## Zone 2, 21, 22

### INDUSTRIAL PLUGS IN ANTISTATIC MATERIAL





	GAS			DUST		
<b>ZONE</b>	0	1	2	20	21	22
<b>USABLE</b>			X		X	X

Low voltage watertight straight plugs, IEC EN 60309-1 and IEC EN 60309-2 standard, suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The body of the plug is made of very thick anti-static technopolymer in RAL 9005 black colour. The contact holder insert is in self-extinguishing technopolymer for versions up to 32A and in thermosetting (GRP) material for the 63A version. The plugs feature IP66 protection rating.

#### Cable specifications:

Rated current (A)	Poles	Entry cable diameters (mm)	Entry cable sections (mm <sup>2</sup> )
16	2P+≐	5 - 12,5	1 - 4
	3P+≐	6,5 - 14	
	3P+N+≐		
32	2P+≐	8 - 18,5	2,5 - 10
	3P+≐		
	3P+N+≐		
63	2P+≐	10 - 25	4 - 16
	3P+≐		
	3P+N+≐		

Conformity to standards	ATEX Directive 94/9/CE and 2014/34/UE EN 60079-0:2012 + A11:2013 EN 60079-15:2010 EN 60079-31:2014  Directive 2006/95/CE EN 60309-1:1999 + A1:2007 EN 60309-2:1999 + A1:2007 + A2:2012
Atex execution	⊕ II 3G 2D Ex nA IIC T6 Gc Ex tb IIIC T 65 °C Db IP66
Body material	Anti-static high thickness technopolymer
Surface resistivity	<10 <sup>9</sup> Ω (prevention of electrostatic charge deposit)
Protection rating (IP as per IEC/EN 60529)	IP66
Colour	RAL 9005 (black)
Resistance to abnormal heat and fire ("Glow Wire" as per IEC/EN 60695-2-10)	850°C (handle) 850°C (16A/32A contact holder) 960°C (63A contact holder)
Self-extinguishing grade (as per UL94)	V2
Rated current	16A - 32A - 63A
Rated voltage	110V - 500V
Rated frequency	50-60Hz
Rated insulation voltage	690V
Operating temperature	-20°C ÷ +40°C

CERTIFICATES	INSTRUCTIONS
	





## SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



CEE-EX SERIES  
Plugs with cable gland  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
16	110	●	2P+⊕	4	<b>477203EX</b>	1
	110	●	3P+⊕	4	<b>477213EX</b>	1
	110	●	3P+N+⊕	4	<b>477223EX</b>	1
	230	●	2P+⊕	6	<b>477303EX</b>	1
	230	●	3P+⊕	9	<b>477313EX</b>	1
	230	●	3P+N+⊕	9	<b>477323EX</b>	1
	400	●	2P+⊕	9	<b>477403EX</b>	1
	400	●	3P+⊕	6	<b>477413EX</b>	1
	400	●	3P+N+⊕	6	<b>477423EX</b>	1
	500	●	3P+⊕	7	<b>477513EX</b>	1
	500	●	3P+N+⊕	7	<b>477523EX</b>	1
	32	110	●	2P+⊕	4	<b>477206EX</b>
110		●	3P+⊕	4	<b>477216EX</b>	1
110		●	3P+N+⊕	4	<b>477226EX</b>	1
230		●	2P+⊕	6	<b>477306EX</b>	1
230		●	3P+⊕	9	<b>477316EX</b>	1
230		●	3P+N+⊕	9	<b>477326EX</b>	1
400		●	2P+⊕	9	<b>477406EX</b>	1
400		●	3P+⊕	6	<b>477416EX</b>	1
400		●	3P+N+⊕	6	<b>477426EX</b>	1
500		●	3P+⊕	7	<b>477516EX</b>	1
500		●	3P+N+⊕	7	<b>477526EX</b>	1



CEE-EX SERIES  
Plugs with cable gland  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
63	110	●	2P+⊕	4	<b>477207EX</b>	1
	110	●	3P+⊕	4	<b>477217EX</b>	1
	110	●	3P+N+⊕	4	<b>477227EX</b>	1
	230	●	2P+⊕	6	<b>477307EX</b>	1
	230	●	3P+⊕	9	<b>477317EX</b>	1
	230	●	3P+N+⊕	9	<b>477327EX</b>	1
	400	●	2P+⊕	9	<b>477407EX</b>	1
	400	●	3P+⊕	6	<b>477417EX</b>	1
	400	●	3P+N+⊕	6	<b>477427EX</b>	1
	500	●	3P+⊕	7	<b>477517EX</b>	1
	500	●	3P+N+⊕	7	<b>477527EX</b>	1

**Characteristics:** nickel plated pins in one single unit, contact holder insert made of thermosetting (GRP) GWT 960° C.

# TAIS-EX Series

## Zone 2, 21, 22

INTERLOCKED SOCKETS  
IN ANTISTATIC THERMOSETTING (GRP)



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

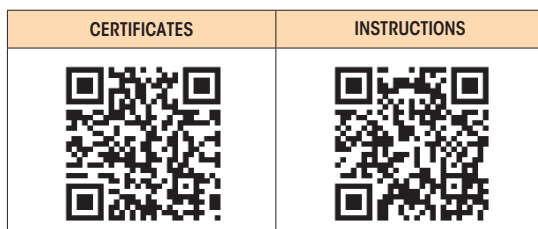
Wall-mounted watertight interlocked sockets in antistatic thermosetting (GRP) suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer that allows to keep the IP66 protection rating. The interlock system is made of metal, and the inside isolator switch is an AC23A-AC3 class switch at rated current with the capacity of withstanding a short circuit  $\geq 10\text{kA}$ .

### Rated operating current isolator switch:

			16A	20A 32A	40A 63A
Thermal current I <sub>th</sub>		A	16	32	63
AC21A		A	16	32	63
AC22A		A	16	32	63
AC23A		A	16	32	63
AC23A	230V	kW	4,5	8,5	20
	400V		7,5	15	34
	500V		8,5	17	44
AC3	230V	kW	4,5	8,5	18
	400V		7,5	15	31
	500V		8,5	17	40

### Terminal specifications:

			16A	20A 32A	40A 63A
Entry cable sections	mm <sup>2</sup>		1 - 10		6 - 16
Entry cable diameters	mm		12 - 18	16 - 25	22 - 32



Conformity to standards  
ATEX Directive 94/9/CE and 2014/34/UE  
EN 60079-0:2012 + A11:2013  
EN 60079-15:2010  
EN 60079-31:2014

Directive 2006/95/CE  
EN 60309-1:1999 + A1:2007 + A2:2012  
EN 60309-2:1999 + A1:2007 + A2:2012  
EN 60309-4:2007 + A1:2012

**Ex** II 3G 2D

Atex execution  
(sockets)  
Ex nR IIC T6 Gc  
Ex tb IIIC T 80/100/115 °C Db IP66

(boxes)  
Ex nR IIC Gc  
Ex tb IIIC Db IP66

Body material  
**Antistatic thermosetting (GRP)**

Surface resistivity  
**<10<sup>9</sup> Ω**  
(prevention of electrostatic charge deposit)

Protection rating (IP as per IEC/EN 60529)  
**IP66**

Colour  
**RAL 9005 (black)**

Resistance to abnormal heat and fire ("Glow Wire" as per IEC/EN 60695-2-10)  
**960°C**

Self-extinguishing grade (as per UL94)  
**V0**

Rated current  
**16A - 32A - 63A**

Rated voltage  
**110V - 500V**

Rated frequency  
**50-60Hz**

Conditional short-circuit current - isolator switch  
**≥ 10kA**

Rated insulation voltage  
**690V**

Insulation class  
**II**

Operating temperature  
**-20°C ÷ +40°C**



SUITABLE FOR ZONE 21-22 (DUST)

MODULE 125



TAIS-EX SERIES  
Switched sockets  
in thermosetting (GRP) with  
mechanical interlock and  
fuse-holder, for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h. ref.	Palazzoli code	Pack Q.ty
16	110	Yellow	2P+⊕	4	463124EX	1
entry M25	110	Yellow	3P+⊕	4	463134EX	1
	110	Yellow	3P+N+⊕	4	463144EX	1
fuses 10,3x38	230	Blue	2P+⊕	6	463126EX	1
	230	Blue	3P+⊕	9	463139EX	1
	230	Blue	3P+N+⊕	9	463149EX	1
	400	Red	2P+⊕	9	463129EX	1
	400	Red	3P+⊕	6	463136EX	1
	400	Red	3P+N+⊕	6	463146EX	1
32	500	Black	3P+⊕	7	463137EX	1
	500	Black	3P+N+⊕	7	463147EX	1
	110	Yellow	2P+⊕	4	472611EX	1
entry M32	110	Yellow	3P+⊕	4	472711EX	1
	110	Yellow	3P+N+⊕	4	472811EX	1
fuses 14x51	230	Blue	2P+⊕	6	472621EX	1
	230	Blue	3P+⊕	9	472721EX	1
	230	Blue	3P+N+⊕	9	472821EX	1
	400	Red	2P+⊕	9	472631EX	1
	400	Red	3P+⊕	6	472731EX	1
	400	Red	3P+N+⊕	6	472831EX	1
	500	Black	3P+⊕	7	472751EX	1
	500	Black	3P+N+⊕	7	472841EX	1
63	110	Yellow	2P+⊕	4	472612EX	1
	110	Yellow	3P+⊕	4	472712EX	1
entry M40	110	Yellow	3P+N+⊕	4	472812EX	1
	230	Blue	2P+⊕	6	472622EX	1
fuses E33 DIII	230	Blue	3P+⊕	9	472722EX	1
	230	Blue	3P+N+⊕	9	472822EX	1
	400	Red	2P+⊕	9	472632EX	1
	400	Red	3P+⊕	6	472732EX	1
	400	Red	3P+N+⊕	6	472832EX	1
	500	Black	3P+⊕	7	472752EX	1
	500	Black	3P+N+⊕	7	472842EX	1

**Equipment included:** insulated cable gland.  
**Characteristics:** fuses not included. The codes 472612EX, 472622EX, 472632EX have cable gland with entry diameter 16-26 mm.  
**Technical accessories:** enclosures for compositions at page 11. Thermosetting (GRP) backplate at page 11.

MODULE 125



TAIS-EX SERIES  
Switched sockets  
in thermosetting (GRP) with  
mechanical interlock and  
MCB, for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h. ref.	Palazzoli code	Pack Q.ty
16	110	Yellow	2P+⊕	4	464210EX	1
entry M25	110	Yellow	3P+⊕	4	464310EX	1
	110	Yellow	3P+N+⊕	4	464410EX	1
MCB 4,5 kA curve C	230	Blue	2P+⊕	6	464220EX	1
	230	Blue	3P+⊕	9	464320EX	1
	230	Blue	3P+N+⊕	9	464420EX	1
	400	Red	2P+⊕	9	464230EX	1
	400	Red	3P+⊕	6	464330EX	1
	400	Red	3P+N+⊕	6	464430EX	1
32	110	Yellow	3P+⊕	4	464711EX	1
	110	Yellow	3P+N+⊕	4	464811EX	1
entry M32	230	Blue	2P+⊕	6	464621EX	1
	230	Blue	3P+⊕	9	464721EX	1
MCB 6kA curve C	400	Red	3P+⊕	6	464731EX	1
	400	Red	3P+N+⊕	6	464831EX	1
63	230	Blue	3P+⊕	9	464722EX	1
	400	Red	3P+⊕	6	464732EX	1
entry M40	400	Red	3P+N+⊕	6	464832EX	1
	10kA curve C	400	Red	3P+N+⊕	6	464832EX

**Equipment included:** insulated cable gland.  
**Characteristics:** lamp indicating presence of voltage. The code 464722EX have cable gland with entry diameter 16-26 mm.

MODULE 125



TAIS-EX SERIES  
Switched sockets  
in thermosetting (GRP) with  
mechanical interlock,  
for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	H. ref.	Palazzoli code	Pack Q.ty
16	230	Blue	2P+⊕	6	467126EX	1
entry M25	400	Red	3P+⊕	6	467136EX	1
	400	Red	3P+N+⊕	6	467146EX	1
32	230	Blue	2P+⊕	6	470226EX	1
	400	Red	3P+⊕	6	470236EX	1
entry M32	400	Red	3P+N+⊕	6	470246EX	1
	63	400	Red	3P+⊕	6	470336EX
entry M40	400	Red	3P+N+⊕	6	470346EX	1

**Equipment included:** insulated cable gland.  
**Technical accessories:** enclosures for compositions at page 11. Thermosetting (GRP) backplate at page 11.

## SUITABLE FOR ZONE 2 (GAS)

### MODULE 125



**TAIS-EX SERIES**  
Switched sockets  
in thermosetting (GRP) with  
mechanical interlock and  
fuse-holder, for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty
16 entry M25 fuses 10,3x38	110	Yellow	2P+⊕	4	<b>463124EX</b>	1
	110	Yellow	3P+⊕	4	<b>463134EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>463144EX</b>	1
	230	Blue	2P+⊕	6	<b>463126EX</b>	1
	230	Blue	3P+⊕	9	<b>463139EX</b>	1
	230	Blue	3P+N+⊕	9	<b>463149EX</b>	1
	400	Red	2P+⊕	9	<b>463129EX</b>	1
	400	Red	3P+⊕	6	<b>463136EX</b>	1
	400	Red	3P+N+⊕	6	<b>463146EX</b>	1
	500	Black	3P+⊕	7	<b>463137EX</b>	1
500	Black	3P+N+⊕	7	<b>463147EX</b>	1	
20 entry M32 fuses 14x51	110	Yellow	2P+⊕	4	<b>472611EX</b>	1
	110	Yellow	3P+⊕	4	<b>472711EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>472811EX</b>	1
	230	Blue	2P+⊕	6	<b>472621EX</b>	1
	230	Blue	3P+⊕	9	<b>472721EX</b>	1
	230	Blue	3P+N+⊕	9	<b>472821EX</b>	1
	400	Red	2P+⊕	9	<b>472631EX</b>	1
	400	Red	3P+⊕	6	<b>472731EX</b>	1
	400	Red	3P+N+⊕	6	<b>472831EX</b>	1
	500	Black	3P+⊕	7	<b>472751EX</b>	1
500	Black	3P+N+⊕	7	<b>472841EX</b>	1	
40 entry M32 fuses 14x51	110	Yellow	2P+⊕	4	<b>463324EX</b>	1
	110	Yellow	3P+⊕	4	<b>463334EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>463344EX</b>	1
	230	Blue	2P+⊕	6	<b>463326EX</b>	1
	230	Blue	3P+⊕	9	<b>463339EX</b>	1
	230	Blue	3P+N+⊕	9	<b>463349EX</b>	1
	400	Red	2P+⊕	9	<b>463329EX</b>	1
	400	Red	3P+⊕	6	<b>463336EX</b>	1
	400	Red	3P+N+⊕	6	<b>463346EX</b>	1
	500	Black	3P+⊕	7	<b>463337EX</b>	1
500	Black	3P+N+⊕	7	<b>463347EX</b>	1	

**Equipment included:** insulated cable gland.

**Characteristics:** fuses not included.

**Technical accessories:** enclosures for compositions at page 11. Thermosetting (GRP) backplate at page 11.

### Compatibility of plugs with interlocked sockets for zone 2 (GAS)

Rated current			
Sockets with fuse-holder	Sockets with MCB	Sockets with direct connection	Plug
16A	16A	16A	16A
20A	32A	32A	32A
40A	40A	63A	63A

### MODULE 125



**TAIS-EX SERIES**  
Switched sockets  
in thermosetting (GRP) with  
mechanical interlock and  
MCB, for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Q.ty	
16 entry M25	110	Yellow	2P+⊕	4	<b>464210EX</b>	1	
	110	Yellow	3P+⊕	4	<b>464310EX</b>	1	
	110	Yellow	3P+N+⊕	4	<b>464410EX</b>	1	
	MCB 4,5 kA curve C	230	Blue	2P+⊕	6	<b>464220EX</b>	1
		230	Blue	3P+⊕	9	<b>464320EX</b>	1
		230	Blue	3P+N+⊕	9	<b>464420EX</b>	1
	400	Red	2P+⊕	9	<b>464230EX</b>	1	
	400	Red	3P+⊕	6	<b>464330EX</b>	1	
	400	Red	3P+N+⊕	6	<b>464430EX</b>	1	
	32 entry M32	110	Yellow	3P+⊕	4	<b>464711EX</b>	1
110		Yellow	3P+N+⊕	4	<b>464811EX</b>	1	
230		Blue	2P+⊕	6	<b>464621EX</b>	1	
MCB 6 kA curve C	230	Blue	3P+⊕	9	<b>464721EX</b>	1	
	400	Red	3P+⊕	6	<b>464731EX</b>	1	
	400	Red	3P+N+⊕	6	<b>464831EX</b>	1	
40 entry M32 MCB 10kA curve C	230	Blue	3P+⊕	9	<b>464339EX</b>	1	
	400	Red	3P+⊕	6	<b>464336EX</b>	1	
	400	Red	3P+N+⊕	6	<b>464346EX</b>	1	

**Equipment included:** insulated cable gland.

**Characteristics:** lamp indicating presence of voltage.

### MODULE 125



**TAIS-EX SERIES**  
Switched sockets  
in thermosetting (GRP) with  
mechanical interlock,  
for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	H. ref.	Palazzoli code	Pack Q.ty
16 entry M25	230	Blue	2P+⊕	6	<b>467126EX</b>	1
	400	Red	3P+⊕	6	<b>467136EX</b>	1
	400	Red	3P+N+⊕	6	<b>467146EX</b>	1
32 entry M32	230	Blue	2P+⊕	6	<b>470226EX</b>	1
	400	Red	3P+⊕	6	<b>470236EX</b>	1
	400	Red	3P+N+⊕	6	<b>470246EX</b>	1
63 entry M40	400	Red	3P+⊕	6	<b>470336EX</b>	1
	400	Red	3P+N+⊕	6	<b>470346EX</b>	1

**Equipment included:** insulated cable gland.

**Technical accessories:** enclosures for compositions at page 11. Thermosetting (GRP) backplate at page 11.



SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



**TAIS-EX SERIES**  
Boxes in thermosetting (GRP) with blind cover for composition of socket boards IP66

External dimensions (mm)	Maximum power dissipation allowed (W)		Installable devices	Palazzoli code	Pack Q.ty
	Gas	Dust			
125x185x125	8	17	1	<b>532240EX</b>	1
250x185x125	8	22	2	<b>532242EX</b>	1
380x185x125	9	24	2	<b>532244EX</b>	1

**Characteristics:** supplied with drilling template. The protection rating and the consequent certification of the distribution board are guaranteed if the holes are drilled with the proper set of cup shaped milling cutters code 538410 (TAIS series) as per the instructions supplied with the product.

**Technical accessories:** internal mounting plates in steel at page 19.



**TAIS SERIES**  
Mounting plates in thermosetting (GRP) with guided system for composition of socket boards

External dimensions (mm)	Installable devices	Palazzoli code	Pack Q.ty
125x630	1	<b>538800</b>	1
250x630	2	<b>538802</b>	1
380x630	2	<b>538804</b>	1

**Equipment included:** built-in threaded brass dowels, supplied with screws and relative stainless steel washers for fastenings.

**Characteristics:** the guided positioning system simplify the assembling of the equipments on the back plate.



**UNI-EX SERIES**  
Fittings for coupling of sockets and boxes IP66

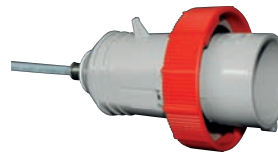
From hole	To hole	Palazzoli code	Pack Q.ty
M25	M25	<b>538421EX</b>	1
M32	M32	<b>538429EX</b>	1
M40	M40	<b>538436EX</b>	1

**Characteristics:** they are used to couple socket-outlets with enclosures.



**TAIS SERIES**  
Milling cutters, cup shaped, in steel, for quick drill connection, tungsten carbide gear teeth, specific for thermosetting

Holes	Diameter (mm)	Palazzoli code	Pack Q.ty
M20 - M25 - M32 - M40	20,5 - 25,5 - 32,5 - 40,5	<b>538410</b>	1




**CEE-EX SERIES**  
Device for testing the restricted breathing of the sockets

Socket rated current	Poles	Palazzoli code	Pack Q.ty
16A	2P+⚡	<b>478126</b>	1
	3P+⚡	<b>478136</b>	1
	3P+N+⚡	<b>478146</b>	1
20A/32A	2P+⚡/3P+⚡	<b>478206</b>	1
	3P+N+⚡	<b>478246</b>	1
40A/63A	2P+⚡/3P+⚡/3P+N+⚡	<b>478306</b>	1

**Equipment included:** transparent tube to be applied at the testing device.

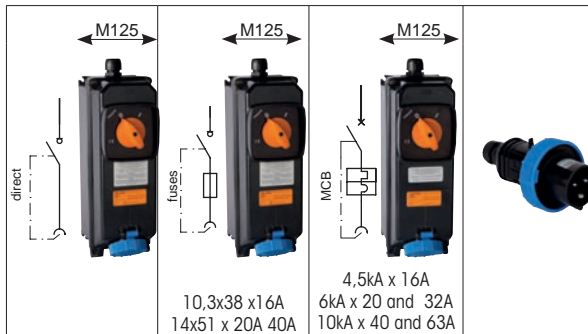
**Instructions:** insert the testing device into the socket-outlet (test port), tighten the device's shade ring and do the testing according to Art.33.7.1 of EN60079-15 Standards with the suitable measuring device.

# GUIDE FOR COMPOSING TAIS-EX SOCKET BATTERIES

  
**ATEX**  
 II 2D Ex tb IIC  
 T 80/100/115°C  
 Db IP66  


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 II 3G Ex nR IIC  
 T6 Gc



## COMPOSITIONS

**Dust Zone 21**  
TUV certified and wired by the installer

**538800**      **538802**  
1 Socket      2 Sockets

DUST ZONE 21-22								
<b>16A</b>	230V	2P+≐	M25	●	<b>467126EX</b>	<b>463126EX</b>	<b>464220EX</b>	<b>477303EX</b>
	400V	3P+≐	M25	●	<b>467136EX</b>	<b>463136EX</b>	<b>464330EX</b>	<b>477413EX</b>
	400V	3P+N+≐	M25	●	<b>467146EX</b>	<b>463146EX</b>	<b>464430EX</b>	<b>477423EX</b>
<b>32A</b>	230V	2P+≐	M32	●	<b>470226EX</b>	<b>472621EX</b>	<b>464621EX</b>	<b>477306EX</b>
	400V	3P+≐	M32	●	<b>470236EX</b>	<b>472731EX</b>	<b>464731EX</b>	<b>477416EX</b>
	400V	3P+N+≐	M32	●	<b>470246EX</b>	<b>472831EX</b>	<b>464831EX</b>	<b>477426EX</b>
<b>63A</b>	400V	3P+≐	M40	●	<b>470336EX</b>	<b>472732EX</b>	<b>464732EX</b>	<b>477417EX</b>
	400V	3P+N+≐	M40	●	<b>470346EX</b>	<b>472832EX</b>	<b>464832EX</b>	<b>477427EX</b>

**Dust Zone 22**  
Certified and wired by Palazzoli






**538804**  
3 or more sockets

Common equipment for dust and gas: cable gland in technopolymer

GAS ZONE 2								
<b>16A</b>	230V	2P+≐	M25	●	<b>467126EX</b>	<b>463126EX</b>	<b>464220EX</b>	<b>477303EX</b>
	400V	3P+≐	M25	●	<b>467136EX</b>	<b>463136EX</b>	<b>464330EX</b>	<b>477413EX</b>
	400V	3P+N+≐	M25	●	<b>467146EX</b>	<b>463146EX</b>	<b>464430EX</b>	<b>477423EX</b>
<b>20A</b>	230V	2P+≐	M32	●			<b>472621EX</b>	<b>477306EX</b>
	400V	3P+≐	M32	●			<b>472731EX</b>	<b>477416EX</b>
	400V	3P+N+≐	M32	●			<b>472831EX</b>	<b>477426EX</b>
<b>32A</b>	230V	2P+≐	M40	●	<b>470226EX</b>		<b>464621EX</b>	<b>477306EX</b>
	400V	3P+≐	M40	●	<b>470236EX</b>		<b>464731EX</b>	<b>477416EX</b>
	400V	3P+N+≐	M40	●	<b>470246EX</b>		<b>464831EX</b>	<b>477426EX</b>
<b>40A</b>	400V	3P+≐	M40	●		<b>463336EX</b>	<b>464336EX</b>	<b>477417EX</b>
	400V	3P+N+≐	M40	●		<b>463346EX</b>	<b>464346EX</b>	<b>477427EX</b>
<b>63A</b>	400V	3P+≐	M40	●	<b>470336EX</b>			<b>477417EX</b>
	400V	3P+N+≐	M40	●	<b>470346EX</b>			<b>477427EX</b>

**Gas Zone 2 from 16A to 20A**  
TUV certified and wired by the installer

**538800**      **538802**  
1 Socket      2 Sockets

COMMON ACCESSORIES			
<b>Coupling fitting</b>			
	<b>538421EX</b>	M25	
	<b>538429EX</b>	M32	
	<b>538436EX</b>	M40	
<b>Box</b>			
	<b>532240EX</b>	125x185 x 1 Socket	
	<b>532242EX</b>	250x185 x 2 Sockets	
	<b>532244EX*</b>	380x185 x 2 Sockets	
<b>Mounting plate</b>			
	<b>538800</b>	125x360 x 1 Socket	
	<b>538802</b>	250x630 x 2 Sockets	
	<b>538804*</b>	380x630 x 2 Sockets	

\* For 3 sockets only certified and wired by Palazzoli

**Gas Zone 2 from 32A to 63A**  
TUV certified and wired by the installer

**538800**      **538804**  
1 Socket      2 Sockets

## DESIGN AND INSTALL SOCKET BATTERIES FOR EXPLOSIVE ATMOSPHERE

For each application requirements you can create online your batteries with TAIS-EX sockets in hazardous areas.

Decide the combustible: DUST or GAS.



Decide the interlocked sockets: with fuse-holder, with MCB or with direct connection.

**Scegli un modello** Torna Indietro Chiudi

**Presse interbloccate con FUSIBILI stagna zona 2 Gas**

	Codice	Descrizione	Modulo	In (corrente nominale)	Poli	Hz (frequenza)	Vn (tensione nominale)	Larghezza (mm.)	Altezza (mm.)	Rif. orario
	463124EX	Presse interbloccate con fusibili stagna 16A 2P+T 110V 4h IP66 2D-3G TAIS-EX	m125	16A	2P+T	50-60Hz	110V	125	335	4h
	463134EX	Presse interbloccate con fusibili stagna 16A 3P+T 110V 4h IP66 2D-3G TAIS-EX	m125	16A	3P+T	50-60Hz	110V	125	335	4h
	463144EX	Presse interbloccate con fusibili stagna 16A 3P+N+T 110V 4h IP66 2D-3G	m125	16A	3P+N+T	50-60Hz	110V	125	335	4h

Print and send your project complete with bill of material and certificates.

**Preventivo e dettaglio progetto**  
A - 22/01/2015 - tais-ex gas

TAIS-EX software is available on [www.palazzoli.com](http://www.palazzoli.com) or directly from the QR Code

**Lista materiali quadro**

Codice	Descrizione	Quantità
463126EX	Presse interbloccate con fusibili stagna 16A 2P+T 230V 6h IP66 2D-3G TAIS-EX	1
463146EX	Presse interbloccate con fusibili stagna 16A 3P+N+T 400V 6h IP66 2D-3G TAIS-EX	1
470336EX	Presse interbloccate con alimentazione diretta stagna 63A 3P+T 400V 6h IP66 2D-3G TAIS-EX	1
532240EX	Contenitore stagno a montaggio rapido con coperchio cieco 125x185mm IP66 TAIS-EX	1
532242EX	Contenitore stagno a montaggio rapido con coperchio cieco 250x185mm IP66 TAIS-EX	1
538800	Riastro a sistema guidato 125x430mm 1 presse TAIS	1
538802	Riastro a sistema guidato 250x430mm 2 presse TAIS	1

# ALUPRES-EX Series

## Zone 2, 21, 22

### INTERLOCKED SOCKETS IN ALUMINIUM ALLOY



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Wall-mounted interlocked sockets in aluminium alloy suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium and finished with hot polymerized scratch-resistant nontoxic polyester painting. The colour is RAL 9005 black. The interlock system is made of metal, and the inside isolator switch is an AC23A-AC3 class switch at rated current with the capacity of withstanding a short circuit  $\geq 10\text{kA}$ . The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. Supplied with flange with insulated cable gland.

#### Rated operating current isolator switch:

			16A	25A 32A	40A 63A
Thermal current Ith	A		16	32	63
AC21A	A		16	32	63
AC22A	A		16	32	63
AC23A	A		16	32	63
AC23A	230V	kW	4,5	8,5	20
			7,5	15	34
			8,5	17	44
AC3	230V	kW	4,5	8,5	18
			7,5	15	31
			8,5	17	40

#### Terminal specifications:

			16A	25A 32A	40A 63A
Entry cable sections	mm <sup>2</sup>		1 - 10		6 - 16
Entry cable diameters	mm		12 - 18	16 - 25	

Conformity to standards

ATEX Directive 94/9/CE and 2014/34/UE  
EN 60079-0:2012 + A11:2013  
EN 60079-15:2010  
EN 60079-31:2014

Directive 2006/95/CE  
EN 60309-1:1999 + A1:2007 + A2:2012  
EN 60309-2:1999 + A1:2007 + A2:2012  
EN 60309-4:2007 + A1:2012

Ex II 3G 2D

Atex execution

(Sockets)  
Ex nR IIC T6 Gc  
Ex tb IIIC T 80/100/115 °C Db IP66

(boxes)  
Ex nR IIC Gc  
Ex tb IIIC Db IP66

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium**

Painting **Hot polymerized non-toxic polyester**

Colour **RAL 9005 (black)**

Protection rating (IP as per IEC/EN 60529) **IP66**

Rated current **16A - 32A - 63A**

Rated voltage **110V - 500V**

Rated frequency **50-60Hz**

Conditional short-circuit current - isolator switch  **$\geq 10\text{kA}$**

Rated insulation voltage **690V**

Insulation class **I**

Operating temperature **-20°C ÷ +40°C**

CERTIFICATES



INSTRUCTIONS







SUITABLE FOR ZONE 21-22 (DUST)

MODULE 125



ALUPRES-EX SERIES  
Switched sockets  
in aluminium alloy with  
mechanical interlock and  
fuse-holder, for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h. ref.	Palazzoli code	Pack Q.ty
16 entry M25 fuses 10.3x38	110	Yellow	2P+⊕	4	<b>465124EX</b>	1
	110	Yellow	3P+⊕	4	<b>465134EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>465144EX</b>	1
	230	Blue	2P+⊕	6	<b>465126EX</b>	1
	230	Blue	3P+⊕	9	<b>465139EX</b>	1
	230	Blue	3P+N+⊕	9	<b>465149EX</b>	1
	400	Red	2P+⊕	9	<b>465129EX</b>	1
	400	Red	3P+⊕	6	<b>465136EX</b>	1
	400	Red	3P+N+⊕	6	<b>465146EX</b>	1
	500	Black	3P+⊕	7	<b>465137EX</b>	1
500	Black	3P+N+⊕	7	<b>465147EX</b>	1	
32 entry M32 fuses 14x51	110	Yellow	2P+⊕	4	<b>472236EX</b>	1
	110	Yellow	3P+⊕	4	<b>472246EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>472256EX</b>	1
	230	Blue	2P+⊕	6	<b>472336EX</b>	1
	230	Blue	3P+⊕	9	<b>472346EX</b>	1
	230	Blue	3P+N+⊕	9	<b>472356EX</b>	1
	400	Red	2P+⊕	9	<b>472436EX</b>	1
	400	Red	3P+⊕	6	<b>472446EX</b>	1
	400	Red	3P+N+⊕	6	<b>472456EX</b>	1
	500	Black	3P+⊕	7	<b>472546EX</b>	1
500	Black	3P+N+⊕	7	<b>472556EX</b>	1	
63 entry M32 fuses E33 DIII	110	Yellow	2P+⊕	4	<b>472237EX</b>	1
	110	Yellow	3P+⊕	4	<b>472247EX</b>	1
	110	Yellow	3P+N+⊕	4	<b>472257EX</b>	1
	230	Blue	2P+⊕	6	<b>472337EX</b>	1
	230	Blue	3P+⊕	9	<b>472347EX</b>	1
	230	Blue	3P+N+⊕	9	<b>472357EX</b>	1
	400	Red	2P+⊕	9	<b>472437EX</b>	1
	400	Red	3P+⊕	6	<b>472447EX</b>	1
	400	Red	3P+N+⊕	6	<b>472457EX</b>	1
	500	Black	3P+⊕	7	<b>472547EX</b>	1
500	Black	3P+N+⊕	7	<b>472557EX</b>	1	

**Equipment included:** flange F1 with insulated cable gland on the top side. Steel blind flange on the bottom side.

**Characteristics:** fuses not included.

**Technical accessories:** enclosures for compositions at page 17. Steel backplate at page 17.

MODULE 125



ALUPRES-EX SERIES  
Switched sockets  
in aluminium alloy with  
mechanical interlock,  
for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h. ref.	Palazzoli code	Pack Q.ty
16 entry M25	230	Blue	2P+⊕	6	<b>466126EX</b>	1
	400	Red	3P+⊕	6	<b>466136EX</b>	1
	400	Red	3P+N+⊕	6	<b>466146EX</b>	1
32 entry M32	230	Blue	2P+⊕	6	<b>460226EX</b>	1
	400	Red	3P+⊕	6	<b>460236EX</b>	1
	400	Red	3P+N+⊕	6	<b>460246EX</b>	1
63 entry M32	400	Red	3P+⊕	6	<b>460336EX</b>	1
	400	Red	3P+N+⊕	6	<b>460346EX</b>	1

**Equipment included:** flange F1 with insulated cable gland on the top side. Steel blind flange on the bottom side.

**Technical accessories:** enclosures for compositions at page 17. Steel backplate at page 17.

## SUITABLE FOR ZONE 2 (GAS)

### MODULE 125



ALUPRES-EX SERIES  
Switched sockets  
in aluminium alloy with  
mechanical interlock and  
fuse-holder, for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h. ref.	Palazzoli code	Pack Q.ty	
16 entry M25	110	Yellow	2P+⊕	4	<b>465124EX</b>	1	
	110	Yellow	3P+⊕	4	<b>465134EX</b>	1	
fuses 10,3x38	110	Yellow	3P+N+⊕	4	<b>465144EX</b>	1	
	230	Blue	2P+⊕	6	<b>465126EX</b>	1	
	230	Blue	3P+⊕	9	<b>465139EX</b>	1	
	230	Blue	3P+N+⊕	9	<b>465149EX</b>	1	
	400	Red	2P+⊕	9	<b>465129EX</b>	1	
	400	Red	3P+⊕	6	<b>465136EX</b>	1	
	400	Red	3P+N+⊕	6	<b>465146EX</b>	1	
	500	Black	3P+⊕	7	<b>465137EX</b>	1	
25 entry M32	110	Yellow	2P+⊕	4	<b>472236EX</b>	1	
	110	Yellow	3P+⊕	4	<b>472246EX</b>	1	
	fuses 14x51	110	Yellow	3P+N+⊕	4	<b>472256EX</b>	1
		230	Blue	2P+⊕	6	<b>472336EX</b>	1
		230	Blue	3P+⊕	9	<b>472346EX</b>	1
		230	Blue	3P+N+⊕	9	<b>472356EX</b>	1
		400	Red	2P+⊕	9	<b>472436EX</b>	1
		400	Red	3P+⊕	6	<b>472446EX</b>	1
		400	Red	3P+N+⊕	6	<b>472456EX</b>	1
		500	Black	3P+⊕	7	<b>472546EX</b>	1
500	Black	3P+N+⊕	7	<b>472556EX</b>	1		
40 entry M32	110	Yellow	2P+⊕	4	<b>465324EX</b>	1	
	110	Yellow	3P+⊕	4	<b>465334EX</b>	1	
	fuses 14x51	110	Yellow	3P+N+⊕	4	<b>465344EX</b>	1
		230	Blue	2P+⊕	6	<b>465326EX</b>	1
		230	Blue	3P+⊕	9	<b>465339EX</b>	1
		230	Blue	3P+N+⊕	9	<b>465349EX</b>	1
		400	Red	2P+⊕	9	<b>465329EX</b>	1
		400	Red	3P+⊕	6	<b>465336EX</b>	1
		400	Red	3P+N+⊕	6	<b>465346EX</b>	1
		500	Black	3P+⊕	7	<b>465337EX</b>	1
500	Black	3P+N+⊕	7	<b>465347EX</b>	1		

**Equipment included:** flange F1 with insulated cable gland on the top side. Steel blind flange on the bottom side.

**Characteristics:** fuses not included.

**Technical accessories:** enclosures for compositions at page 17. Steel backplate at page 17.

### MODULE 125



ALUPRES-EX SERIES  
Switched sockets  
in aluminium alloy with  
mechanical interlock,  
for wall mounting  
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h. ref.	Palazzoli code	Pack Q.ty
16 entry M25	230	Blue	2P+⊕	6	<b>466126EX</b>	1
	400	Red	3P+⊕	6	<b>466136EX</b>	1
	400	Red	3P+N+⊕	6	<b>466146EX</b>	1
	32 entry M32	230	Blue	2P+⊕	6	<b>460226EX</b>
32 entry M32	400	Red	3P+⊕	6	<b>460236EX</b>	1
	400	Red	3P+N+⊕	6	<b>460246EX</b>	1
	63 entry M32	400	Red	3P+⊕	6	<b>460336EX</b>
63 entry M32	400	Red	3P+N+⊕	6	<b>460346EX</b>	1

**Equipment included:** flange F1 with insulated cable gland on the top side. Steel blind flange on the bottom side.

**Technical accessories:** enclosures for compositions at page 17. Steel backplate at page 17.

### Compatibility of plugs with interlocked sockets for zone 2 (GAS)

Rated current		
Sockets with fuse-holder	Sockets with direct connection	Plugs
16A	16A	16A
25A	32A	32A
40A	63A	63A



SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



**ALUPRES-EX SERIES**  
Boxes in aluminium alloy with blind cover for composition of socket boards IP66

External dimensions (mm)	Maximum power dissipation allowed (W)		Window type	Palazzoli code	Pack Q.ty
	Gas	Dust			
125x125	13	20		<b>511914EX</b>	1
252x125	25	40		<b>511919EX</b>	1

**Equipment included:** the code 511919EX is equipped with windowed flange and M32 cable gland. Mounting plate in galvanized steel. Screws for internal and external earth connection.



**ALUPRES SERIES**  
Mounting plates in painted steel for composition of socket boards

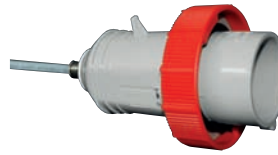
External dimensions (mm)	Installable devices	Palazzoli code	Pack Q.ty
125x558	1	<b>532876</b>	1
250x558	2	<b>532836</b>	1



**ALUPRES-EX SERIES**  
Flange in aluminium alloy with metric threading for windowed boxes IP67

For windows	Threading type	Projection (mm)	Palazzoli code	Pack Q.ty
F1	M25	18	<b>541055EX</b>	1
F1	M32	51	<b>540180EX</b>	1
F2	M32	51	<b>540185EX</b>	1
F2	M40	51	<b>540186EX</b>	1

**Complementary items:** cable glands at page 22.



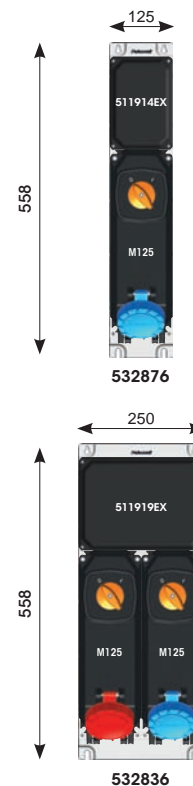
**CEE-EX SERIES**  
Device for testing the restricted breathing of the sockets

Socket rated current	Poles	Palazzoli code	Pack Q.ty
16A	2P+⊕	<b>478126</b>	1
	3P+⊕	<b>478136</b>	1
	3P+N+⊕	<b>478146</b>	1
20A/32A	2P+⊕/3P+⊕	<b>478206</b>	1
	3P+N+⊕	<b>478246</b>	1
40A/63A	2P+⊕/3P+⊕/3P+N+⊕	<b>478306</b>	1

**Equipment included:** transparent tube to be applied at the testing device.  
**Instructions:** insert the testing device into the socket-outlet (test port), tighten the device's shade ring and do the testing according to Art.33.7.1 of EN60079-15 Standards with the suitable measuring device.

**GUIDE FOR COMPOSING SOCKET BATTERIES FOR ATEX ZONE 2 (GAS) AND 21-22 (DUST)**

TÜV certified and wired by the installer



## TAIS-EX Series

### Zone 1, 2, 21, 22

BOXES IN ANTISTATIC THERMOSETTING (GRP)



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE		X	X		X	X

Watertight modular boxes in antistatic thermosetting (GRP) suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. The boxes are predisposed for the installation of an EN50022 rail for mounting composable terminals or either of a backplate in anti-corrosion tropicalized steel.

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:20012 +A11:2013**  
**EN 60079-7:2007**  
**EN 60079-31:2014**

**ATEX Directive 2006/95/CE**  
**EN 62208:2011**

Atex execution  
**II 2G 2D**  
**Ex e IIC Gb**  
**Ex tb IIIC Db**

Material **Antistatic thermosetting (GRP)**

Surface resistivity (prevention of electrostatic charge deposit)  
**< 10<sup>9</sup> Ω**

Protection rating (IP as per IEC/EN 60529)  
**IP66**



Colour **RAL 9005 (black)**

Resistance to abnormal heat and fire ("Glow Wire" as per IEC/EN 60695-2-10)  
**960°C**

Self-extinguishing grade (as per UL94)  
**V0**

Insulation class  
**II**

Operating temperature  
**-20°C ÷ +40°C**  
**-20°C ÷ +50°C**  
**-20°C ÷ +60°C**  
**-20°C ÷ +70°C**  
**-20°C ÷ +75°C**

CERTIFICATES	INSTRUCTIONS
	

## SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



TAIS-EX SERIES  
Junction boxes  
in thermosetting (GRP)  
with easy accessorizing  
IP66

External dimensions (mm)	Maximum power dissipation allowed (W)	Palazzoli code	Pack Q.ty
125x185x125	18	<b>532200EX</b>	1
190x185x125	19	<b>532201EX</b>	1
250x185x125	23	<b>532202EX</b>	1
290x185x125	24	<b>532203EX</b>	1
380x185x125	25	<b>532204EX</b>	1

**Notes:** maximum power dissipation allowed value is for a maximum ambient temperature of 40° C. Back plate included (except for code 511910EX).



TAIS-EX SERIES  
Junction boxes  
in thermosetting (GRP)  
with low cover  
IP66

External dimensions (mm)	Maximum power dissipation allowed (W)	Palazzoli code	Pack Q.ty
92x92x68	8	<b>532035EX</b>	1
125x92x68	10	<b>532045EX</b>	1
185x92x68	12	<b>532055EX</b>	1
125x125x100	13	<b>532116EX</b>	1
185x125x100	15	<b>532117EX</b>	1
250x125x100	20	<b>532118EX</b>	1

**Notes:** maximum power dissipation allowed value is for a maximum ambient temperature of 40° C



TAIS-EX SERIES  
Junction boxes  
in thermosetting (GRP)  
with high cover  
IP66

External dimensions (mm)	Maximum power dissipation allowed (W)	Palazzoli code	Pack Q.ty
92x92x100	11	<b>532005EX</b>	1
125x92x100	11	<b>532006EX</b>	1
185x92x100	16	<b>532015EX</b>	1
125x125x125	15	<b>532016EX</b>	1
185x125x125	17	<b>532017EX</b>	1
250x125x125	22	<b>532018EX</b>	1

**Notes:** maximum power dissipation allowed value is for a maximum ambient temperature of 40° C.



TAIS SERIES  
Back plates  
in galvanized steel  
for junction boxes

For boxes with code	Back plate dimensions (mm)	Palazzoli code	Pack Q.ty
532035EX-532005EX	59x59	<b>532705</b>	1
532045EX-532006EX	92x58	<b>532714</b>	1
532055EX-532015EX	142x62	<b>532715</b>	1
532116EX-532016EX	86x86	<b>532716</b>	1
532117EX-532017EX	100x86	<b>532717</b>	1
532118EX-532018EX	175x86	<b>532718</b>	1
532200EX-532240EX	95x145	<b>532700</b>	1
532201EX	160x145	<b>532701</b>	1
532202EX-532242EX	220x145	<b>532702</b>	1
532203EX	260x145	<b>532703</b>	1
532204EX-532244EX	333x145	<b>532704</b>	1



TAIS SERIES  
Milling cutters,  
cup shaped, in steel,  
for quick drill connection,  
tungsten carbide gear teeth,  
specific for thermosetting

Hole type	Diameter (mm)	Palazzoli code	Pack Q.ty
M20 - M25 - M32 - M40	20,5 - 25,5 - 32,5 - 40,5	<b>538410</b>	1

## ALUPRES-EX Series

### Zone 1, 2, 21, 22

BOXES IN ALUMINIUM ALLOY



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE		X	X		X	X

Watertight wall-mounting boxes in aluminium alloy suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium and finished with hot polymerized scratch-resistant nontoxic polyester painting. The colour is RAL 9005 black. The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. Predisposed for internal and external earth connection.

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2012 + A11:2013**  
**EN 60079-7:2007**  
**EN 60079-31:2014**

**ATEX Directive 2006/95/CE**  
**EN 62208:2011**

Atex execution  
**Ex II 2G 2D**  
**Ex e IIC Gb**  
**Ex tb IIIC Db**

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium**



Painting **Hot polymerized non-toxic polyester**

Colour **RAL 9005 (black)**

Protection rating (IP as per IEC/EN 60529) **IP66**

Insulation class **I**

Operating temperature  
**-20°C ÷ +40°C**  
**-20°C ÷ +50°C**  
**-20°C ÷ +60°C**  
**-20°C ÷ +65°C**

CERTIFICATES	INSTRUCTIONS
	

## SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



ALUPRES-EX SERIES  
Junction boxes  
in aluminium alloy with  
blind walls and back plate  
IP66






External dimensions (mm)	Maximum power dissipation allowed (W)	Palazzoli code	Pack Q.ty
92x92x77	10	<b>511910EX</b>	1
125x125x113	20	<b>511913EX</b>	1
155x155x73	30	<b>150021EX</b>	1
185x185x145	40	<b>511920EX</b>	1
252x185x145	42	<b>511921EX</b>	1

**Equipment included:** screws for internal and external earth connection. Supplied with internal mounting plate (except code 511910EX).

**Notes:** maximum power dissipation allowed value is for a maximum ambient temperature of 40° C.



ALUPRES-EX SERIES  
Junction boxes  
in aluminium alloy with  
windowed walls and  
back plate  
IP66

External dimensions (mm)	Maximum power dissipation allowed (W)	Window type	Palazzoli code	Pack Q.ty
125x92x77	12		<b>511911EX</b>	1
185x92x77	23		<b>511912EX</b>	1
252x125x113	40		<b>511917EX</b>	1
220x220x108	45		<b>511922EX</b>	1
252x252x197	65		<b>511923EX</b>	1

**Equipment included:** screws for internal and external earth connection. Supplied with internal mounting plate (except code 511911EX and 511912EX).

**Notes:** maximum power dissipation allowed value is for a maximum ambient temperature of 40° C.



ALUPRES-EX SERIES  
Flanges in aluminium alloy,  
with metric threading,  
for windowed boxes  
IP66

For windows	Threading type	Projection (mm)	Palazzoli code	Pack Q.ty
F0	M25x1,5	18	<b>541050EX</b>	1
F1	M25x1,5	18	<b>541055EX</b>	1
F1	M32x1,5	51	<b>540180EX</b>	1
F3	M40x1,5	51	<b>540190EX</b>	1
F5	M50x1,5	51	<b>540195EX</b>	1

**Technical accessories:** cable glands at page 22.



ALUPRES-EX SERIES  
Flanges in aluminium alloy,  
for raised closing,  
for windowed boxes  
IP66

For windows	Projection (mm)	Palazzoli code	Pack Q.ty
F1	32	<b>540061EX</b>	1
F3	50	<b>540063EX</b>	1
F5	80	<b>540065EX</b>	1

## CUSTOMIZED ATEX TERMINAL BOXES

Boxes of TAIS-EX in thermosetting (GRP) and ALUPRES-EX in aluminium alloy can be completed with cable glands and terminals to realize customized terminal boxes, suitable to be installed in zones 1,2, 21 and 22, in compliance with the ATEX Directive 94/9/EC and 2014/34/EU.

The customized configurations are certified by a Notified Body and can be realized by Palazzoli on your specifications.

To realize these configurations we need to know:

### 1. Number and type of the composable terminals

The EN50022 rail inside the box can be completed with ATEX composable terminals in compliance with the ATEX directive and certified with Ex-e method of protection. The maximum number of terminals depends on the box dimensions, as per the table below, and the maximum power dissipation allowed.

### 2. Number, type and dispositions of the cable glands

Each box can be drilled on the 4 sides with a maximum number of entries that depends on the cable gland dimensions and side area. Palazzoli cable glands can be used, or those of any brand from M12 to M50, in compliance with ATEX directive and certified with Ex-e/Ex-tb method of protection. Junction boxes with windowed walls can be completed with their proper flanges, blind or with threading, as per the table below.

SERIES	CODE EMPTY BOX	DIMENSIONS (BxHxP)	RAILS LENGTH (mm)	MAXIMUM NUMBER OF CABLE GLANDS THAT CAN BE INSTALLED ON EACH SIDE													
				LONG SIDE OF THE BOX (B)							SHORT SIDE OF THE BOX (H)						
				M12	M16	M20	M25	M32	M40	M50	M12	M16	M20	M25	M32	M40	M50
TAIS-EX	532200EX	185x125x125	145	12	8	6	3	2	2	-	6	4	3	2	1	1	-
	532201EX	190x185x125	160	12	8	6	3	2	2	-	12	8	6	3	2	2	-
	532202EX	250x185x125	220	16	14	12	5	4	3	-	12	8	6	3	2	2	-
	532203EX	290x185x125	260	20	16	14	6	5	4	-	12	8	6	3	2	2	-
	532204EX	380x185x125	333	26	24	22	9	7	6	-	12	8	6	3	2	2	-
	532035EX	92x92x68	59	2	1	1	-	-	-	-	2	1	1	-	-	-	-
	532045EX	125x92x68	92	4	3	3	2	-	-	-	2	1	1	-	-	-	-
	532055EX	185x92x68	142	6	4	4	2	-	-	-	2	1	1	-	-	-	-
	532116EX	125x125x100	86	7	4	3	2	1	1	-	6	4	3	2	1	1	-
	532117EX	185x125x100	100	12	8	6	3	2	2	1	6	4	3	2	1	1	-
	532118EX	250x125x100	175	16	14	12	6	4	3	-	6	4	3	2	1	1	-
	532005EX	92x92x100	59	2	1	1	-	-	-	-	2	1	1	-	-	-	-
	532006EX	125x92x100	92	4	3	3	2	-	-	-	2	1	1	-	-	-	-
	532015EX	185x92x100	142	6	4	4	2	-	-	-	2	1	1	-	-	-	-
	532016EX	125x125x125	86	7	5	4	2	1	-	-	6	5	4	2	1	-	-
532017EX	185x125x125	100	12	7	6	4	3	-	-	6	5	4	2	1	-	-	
532018EX	250x125x125	175	16	10	8	5	4	-	-	6	5	4	2	1	-	-	
ALUPRES-EX	511910EX	92x92x77	69	3	2	2	1	-	-	3	2	2	1	-	-	-	
	511913EX	125x125x113	100	8	5	4	2	2	-	8	5	4	2	2	-	-	
	150021EX	155x155x73	122	10	6	5	3	1	-	10	6	5	3	1	-	-	
	511920EX	185x185x145	160	18	12	10	8	4	3	2	18	12	10	8	4	3	2
	511921EX	252x185x145	200	24	16	14	10	5	4	3	18	12	10	8	4	3	2
	511911EX	125x92x77	100	3	3	2	-	-	-	-	-	-	-	-	-	-	-
	511912EX	185x92x77	150	6	5	4	-	-	-	-	-	-	-	-	-	-	-
	511917EX	252x125x113	200	16	14	6	5	4	-	-	2	1	-	-	-	-	-
	511922EX	220x220x108	190	3	3	2	2	-	-	-	3	3	2	2	-	-	-
	511923EX	252x252x197	210	32	28	18	10	8	6	3	15	8	6	6	2	2	1

### 3. Maximum operating current for each terminal

By specifying this value, you can calculate the maximum power dissipation more precisely, with the possibility to optimize the box dimensions. In case this value will not be available, we will consider the maximum rated current, increasing the dimensions of the box to be used.

### 4. Ambient temperature

Boxes of TAIS-EX in thermosetting (GRP) and ALUPRES-EX in aluminium alloy can be installed within the indicated operating temperature range. By choosing accurately the temperature range, we will be able to optimize the box dimensions.

SERIES	AMBIENT TEMPERATURE	SERIES	AMBIENT TEMPERATURE
TAIS-EX	-20 °C ÷ +40 °C	ALUPRES-EX	-20 °C ÷ +40 °C
	-20 °C ÷ +50 °C		-20 °C ÷ +50 °C
	-20 °C ÷ +60 °C		-20 °C ÷ +60 °C
	-20 °C ÷ +70 °C		-20 °C ÷ +65 °C
	-20 °C ÷ +75 °C		





# CUSTOMIZED ATEX TERMINAL BOXES APPLICATION FORM

## REQUIRED DATA

PALAZZOLI EMPTY BOX CODE: \_\_\_\_\_

MAX AMBIENT TEMPERATURE (°C): \_\_\_\_\_

TERMINAL BRAND: \_\_\_\_\_

(if not indicated, terminals will be decided by Palazzoli)

INTERNAL COMPOSITION	TERMINAL SECTION (mm <sup>2</sup> )						
	2,5	4	6	10	16	25	35
NUMBER OF TERMINALS							
RATED CURRENT (A)							

Indicate number and rated current of the terminals inside the table.

CABLE GLAND MATERIAL:     Insulating material                      Nickered brass

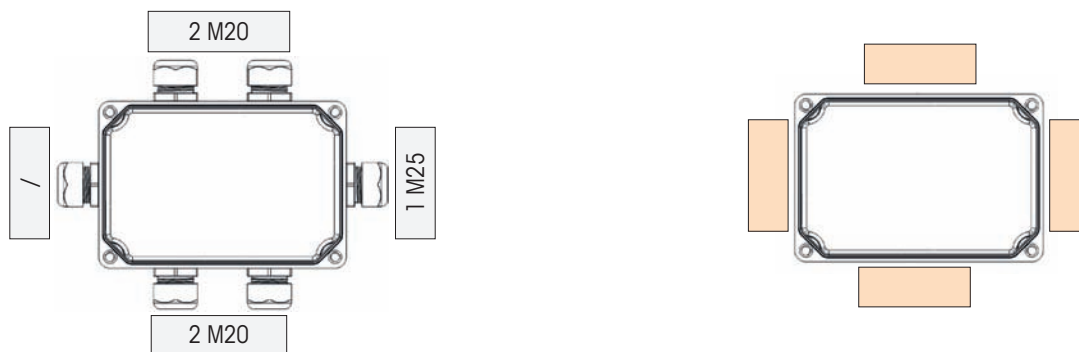
CABLE GLAND BRAND: \_\_\_\_\_

(if not indicated, cable glands will be decided by Palazzoli)

EXTERNAL COMPOSITION	CABLE GLAND THREADING						
	M12	M16	M20	M25	M32	M40	M50
NUMBER OF CABLE GLANDS							

Indicate number of the cable glands and their position on the four sides of the box as per the example here below.

Example:



Form to be sent to [export@palazzoli.com](mailto:export@palazzoli.com) or to fax no. **+39 030 2015.258**.

CERTIFICATES	INSTRUCTIONS

## UNI-EX Series



### Zone 1, 2, 21, 22

#### CABLE GLANDS AND ADAPTORS



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE		X	X		X	X

Cable glands in technopolymer and in nicked brass with neoprene gasket. Adaptors in galvanised steel with male threading Pg or Gas and female threading to connect devices of different standards. The products are suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE.

CERTIFICATES	INSTRUCTIONS
	

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2006**  
**EN 60079-7:2007**  
**EN 61241-0:2006**  
**EN 61241-1:2004**

Atex execution  
**Ex II 2G 2D**  
**(cable glands)**  
**Ex e II tD A21 IP66/IP68**  
**(adaptors)**  
**Ex d IIC, Ex e II, Ex tD A21**

Material  
**(insulated cable glands)**  
**Body in polyamide**  
**Gasket in neoprene**  
**(brass cable glands)**  
**Body in nicked brass**  
**Gasket in neoprene**  
**(adaptors)**  
**Galvanised steel**

Colour **RAL 5012 (black)**

Protection rating (IP as per IEC/EN 60529)  
**IP66/IP68 (cable glands)**  
**IP66/IP67 (adaptor)**

Operating temperature  
**(insulated cable glands)**  
**-20°C ÷ +80°C (M12)**  
**-35°C ÷ +95°C**  
**(brass cable glands)**  
**-40°C ÷ +100°C**  
**(adaptors)**  
**-40°C ÷ +150°C**



## SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



UNI-EX SERIES  
Cable glands  
in insulating material,  
with Pg threading  
IP66/IP68

Type Thread	Mounting hole (mm)	Fastening diameter (mm)	Thread length	Palazzoli code	Pack Q.ty
Pg9	16	3,5-8,5	8	<b>571009EX</b>	50
Pg11	19	4-10,5	8	<b>571011EX</b>	50
Pg13,5	21	5-12,5	9	<b>571013EX</b>	50
Pg16	23	6,5-14	10	<b>571016EX</b>	50
Pg21	29	8-18,5	11	<b>571021EX</b>	20
Pg29	38	10-25	12	<b>571029EX</b>	20
Pg36	48	24-34	15	<b>571036EX</b>	10
Pg42	55	34-42	15	<b>571042EX</b>	5
Pg48	61	40-48	15	<b>571048EX</b>	5



UNI-EX SERIES  
Cable glands  
in insulating material,  
with Pg threading  
with long thread  
IP66/IP68

Type Thread	Mounting hole (mm)	Fastening diameter (mm)	Thread length	Palazzoli code	Pack Q.ty
Pg9	16	3,5-5,5	15	<b>571109EX</b>	50
Pg11	19	4-10,5	15	<b>571111EX</b>	50
Pg13,5	21	5-12,5	15	<b>571113EX</b>	50
Pg16	23	6,5-14	15	<b>571116EX</b>	50
Pg21	29	8-18,5	15	<b>571121EX</b>	20
Pg29	38	10-25	15	<b>571129EX</b>	20
Pg36	48	24-34	18	<b>571136EX</b>	10
Pg42	55	34-42	18	<b>571142EX</b>	5
Pg48	61	40-48	18	<b>571148EX</b>	5



UNI SERIES  
Locknuts in insulating  
material, with Pg threading

Type Thread	Palazzoli code	Pack Q.ty
Pg9	<b>571209</b>	50
Pg11	<b>571211</b>	50
Pg13,5	<b>571213</b>	50
Pg16	<b>571216</b>	50
Pg21	<b>571221</b>	25
Pg29	<b>571229</b>	20
Pg36	<b>571236</b>	10
Pg42	<b>571242</b>	5
Pg48	<b>571248</b>	5

SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



UNI-EX SERIES  
Cable glands  
in insulating material,  
with metric threading  
IP66/IP68

Type Thread	Mounting hole (mm)	Fastening diameter (mm)	Thread length	Palazzoli code	Pack Q.ty
M12x1,5	12,5	4-6,5	8	<b>581012EX</b>	50
M16x1,5	16,5	5-10	10	<b>581016EX</b>	50
M20x1,5	20,5	10-14	10	<b>581020EX</b>	50
M25x1,5	25,5	12-18	10	<b>581025EX</b>	20
M32x1,5	32,5	16-25	10	<b>581032EX</b>	20
M40x1,5	40,5	22-32	10	<b>581040EX</b>	20
M50x1,5	50,5	28-38,5	12	<b>581050EX</b>	10
M63x1,5	63,5	40-48	12	<b>581063EX</b>	5



UNI-EX SERIES  
Cable glands  
in insulating material,  
with metric threading  
with long thread  
IP66/IP68

Type Thread	Mounting hole (mm)	Fastening diameter (mm)	Thread length	Palazzoli code	Pack Q.ty
M12x1,5	12,5	4-6,5	15	<b>581112EX</b>	50
M16x1,5	16,5	5-10	15	<b>581116EX</b>	50
M20x1,5	20,5	10-14	15	<b>581120EX</b>	50
M25x1,5	25,5	12-18	15	<b>581125EX</b>	20
M32x1,5	32,5	16-25	15	<b>581132EX</b>	20
M40x1,5	40,5	22-32	16	<b>581140EX</b>	20
M50x1,5	50,5	28-38,5	16	<b>581150EX</b>	10
M63x1,5	63,5	40-48	16	<b>581163EX</b>	5



UNI SERIES  
Locknuts in insulating material,  
with metric threading

Type Thread	Palazzoli code	Pack Q.ty
M12x1,5	<b>581212</b>	50
M16x1,5	<b>581216</b>	50
M20x1,5	<b>581220</b>	50
M25x1,5	<b>581225</b>	50
M32x1,5	<b>581232</b>	50
M40x1,5	<b>581240</b>	20
M50x1,5	<b>581250</b>	10
M63x1,5	<b>581263</b>	5



SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



UNI-EX SERIES  
Cable glands  
in nickel plated brass,  
with metric threading  
IP66/IP68

Type Thread	Mounting hole (mm)	Fastening diameter (mm)	Thread length	Palazzoli code	Pack Q.ty
M12x1,5	12,5	4,5-6,5	15	<b>582112EX</b>	50
M16x1,5	16,5	5-9,5	15	<b>582116EX</b>	50
M20x1,5	20,5	8-13	15	<b>582120EX</b>	50
M25x1,5	25,5	9-16	15	<b>582125EX</b>	20
M32x1,5	32,5	12-21	15	<b>582132EX</b>	20
M40x1,5	40,5	16-27	15	<b>582140EX</b>	20
M50x1,5	50,5	23-35	15	<b>582150EX</b>	10
M63x1,5	63,5	36-48	15	<b>582163EX</b>	5



UNI SERIES  
Locknuts in nickel plated  
brass, with metric threading

Type Thread	Palazzoli code	Pack Q.ty
M12x1,5	<b>582212</b>	50
M16x1,5	<b>582216</b>	50
M20x1,5	<b>582220</b>	50
M25x1,5	<b>582225</b>	25
M32x1,5	<b>582232</b>	20
M40x1,5	<b>582240</b>	10
M50x1,5	<b>582250</b>	10
M63x1,5	<b>582263</b>	5

VERSIONS FOR ARMoured CABLES



Also cable glands and accessories for armoured cables are available upon request.

Palazzoli is available for any information needed.



UNI-EX SERIES  
Adaptors Gas/Metric  
in galvanised steel  
for conduit/box coupling  
IP67

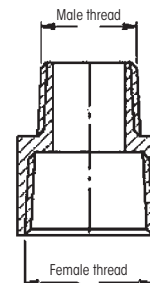
Male thread	Female thread	Palazzoli code	Pack Q.ty
3/8" Gas	M16x1,5	<b>580360EX</b>	1
1/2" Gas	M20x1,5	<b>580361EX</b>	1
3/4" Gas	M25x1,5	<b>580364EX</b>	1
1" Gas	M32x1,5	<b>580365EX</b>	1



UNI-EX SERIES  
Adaptors Pg/Metric  
in galvanised steel  
for conduit/box coupling  
IP67

Male thread	Female thread	Palazzoli code	Pack Q.ty
Pg21	M25x1,5	<b>580394EX</b>	1
Pg29	M32x1,5	<b>580395EX</b>	1
Pg36	M40x1,5	<b>580396EX</b>	1

SELECTION GUIDE



# CAM-EX Series

## Zone 2, 21, 22

ROTARY CONTROL DEVICES  
IN ANTISTATIC THERMOSETTING (GRP)



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Watertight rotary control devices in antistatic thermosetting (GRP) suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. Supplied with internal earth terminal. The isolator switch is an AC23A-AC3 class switch at rated current with the capacity of withstanding a short circuit  $\geq 10\text{kA}$ , the mechanical duration is over one million of operations.

### Rated operating current isolator switch:

			16A	25A	40A	63A
Thermal current Ith		A	16	25	40	63
AC21A	415V	A	16	25	40	63
	500V					
AC22A	415V	A	16	25	40	63
	500V					
AC23A	230V	A	16	25	40	63
	400V					
	500V					
AC23A	230V	kW	4,5	7	11	20
	400V		7,5	12	19	34
	500V		8,5	14	23	44
AC3	230V	kW	4,5	7	11	18
	400V		7,5	12	19	31
	500V		8,5	14	23	40

### Terminal specifications:

			16A	25A	40A	63A
Entry cable sections	mm <sup>2</sup>		1-10		4-10	6-16
Entry cable diameters	mm		12-18		16-25	
Tightening torque	Nm		2			

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2012 + A11:2013**  
**EN 60079-15:2010**  
**EN 60079-31:2014**  
**Directive 2006/95/CE**  
**EN 60947-3:2009 + A1:2012**  
**EN 60947-1:2007 + A1:2011**

Atex execution  
**Ex II 3G 2D**  
**Ex nR IIC T6 Gc**  
**Ex tb IIC T 60/70 °C Db IP66**

Body material  
**Antistatic thermosetting (GRP)**

Surface resistivity  
**<10<sup>9</sup> Ω**  
**(prevention of electrostatic charge deposit)**

Protection rating (IP as per IEC/EN 60529)  
**IP66**

Colour  
**RAL 9005 (black)**

Resistance to abnormal heat and fire ("Glow Wire" as per IEC/EN 60695-2-10)  
**960°C**

Self-extinguishing grade (as per UL94)  
**V0**

Rated current  
**16A - 25A - 40A - 63A**

Rated voltage  
**500V**

Rated frequency  
**50-60Hz**

Conditional short-circuit current - isolator switch  
 **$\geq 10\text{kA}$**

Mechanical duration  
**>1.000.000 operations**

Insulation class  
**II**

Operating temperature  
**-20°C ÷ +40°C**

### CERTIFICATES



### INSTRUCTIONS





## SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



CAM-EX SERIES  
Isolator switches  
in thermosetting (GRP)  
for wall mounting  
IP66



Rated current (A)	Poles	Boxes dimensions (mm)	Hole type	Palazzoli code	Pack Qty
16	2	92x125	M25 ↓ ↑ M25	<b>292101EX</b>	1
	3	92x125	M25 ↓ ↑ M25	<b>292102EX</b>	1
	4	92x125	M25 ↓ ↑ M25	<b>292103EX</b>	1
25	2	92x125	M25 ↓ ↑ M25	<b>292201EX</b>	1
	3	92x125	M25 ↓ ↑ M25	<b>292202EX</b>	1
	4	92x125	M25 ↓ ↑ M25	<b>292203EX</b>	1
40	2	125x185	M32 ↓ ↑ M32	<b>292301EX</b>	1
	3	125x185	M32 ↓ ↑ M32	<b>292302EX</b>	1
	4	125x185	M32 ↓ ↑ M32	<b>292303EX</b>	1
63	2	125x185	M32 ↓ ↑ M32	<b>292411EX</b>	1
	3	125x185	M32 ↓ ↑ M32	<b>292412EX</b>	1
	4	125x185	M32 ↓ ↑ M32	<b>292413EX</b>	1

**Equipment included:** insulated cable glands. Internal earth terminal.

**Characteristics:** predisposed for restricted breathing test.

# CAM-EX Series

## Zone 2, 21, 22

ROTARY CONTROL DEVICES  
IN ALUMINIUM ALLOY



	GAS			DUST		
<b>ZONE</b>	0	1	2	20	21	22
<b>USABLE</b>			X		X	X

Watertight rotary control devices in aluminium alloy suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium and finished with hot polymerized scratch-resistant non-toxic polyester painting. The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. Predisposed for internal and external earth connection. The isolator switch is an AC3-AC23A class switch at rated current with the capacity of withstanding a short circuit  $\geq 10\text{kA}$ , the mechanical duration is over one million of operations.

### Rated operating current isolator switch:

			16A	25A	40A	63A
Thermal current Ith		A	16	25	40	63
AC21A	415V	A	16	25	40	63
	500V					
AC22A	415V	A	16	25	40	63
	500V					
AC23A	230V	A	16	25	40	63
	400V					
	500V					
AC23A	230V	kW	4,5	7	11	20
	400V		7,5	12	19	34
	500V		10	14	23	44
AC3	230V	kW	4,5	7	11	18
	400V		7,5	12	19	31
	500V		10	14	23	40

### Terminal specifications:

		16A	25A	40A	63A
Entry cable sections	mm <sup>2</sup>	1-4	1,5-6	4-10	6-16
Entry cable diameters	mm	12-18		16-25	
Tightening torque	Nm	1,5		2	

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2012+ A11:2013**  
**EN 60079-15:2010**  
**EN 60079-31:2014**  
**Directive 2006/95/CE**  
**EN 60947-3:2009 + A1:2012**  
**EN 60947-1:2007 + A1:2011**

Atex execution  
**Ex II 3G 2D**  
**Ex nR IIC T6 Gc**  
**Ex tb IIIC T 60/70 °C Db IP66**

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium**

Painting **Hot polymerized non-toxic polyester**

Colour **RAL 9005 (black)**

Protection rating (IP as per IEC/EN 60529) **IP66/IP67**

Rated current **16A - 25A - 40A - 63A**

Rated voltage **500V**

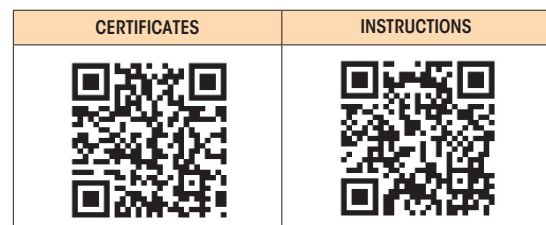
Rated frequency **50-60Hz**

Conditional short-circuit current - isolator switch  **$\geq 10\text{kA}$**

Mechanical duration **>1.000.000 operations**

Insulation class **I**

Operating temperature **-20°C ÷ +40°C**





## SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



CAM-EX SERIES  
Isolator switches  
in aluminium alloy  
for wall mounting  
IP66/IP67



Rated current (A)	Poles	Boxes dimensions (mm)	Hole type	Palazzoli code	Pack Q.ty
16	2	92x92	M25 ↓ □ ↑ M25	<b>272141EX</b>	1
	3	92x92	M25 ↓ □ ↑ M25	<b>272142EX</b>	1
	4	92x92	M25 ↓ □ ↑ M25	<b>272143EX</b>	1
	6	125x185	2xM25 ↓ □ ↑ 2xM25	<b>272144EX</b>	1
25	2	92x92	M25 ↓ □ ↑ M25	<b>272241EX</b>	1
	3	92x92	M25 ↓ □ ↑ M25	<b>272242EX</b>	1
	4	92x92	M25 ↓ □ ↑ M25	<b>272243EX</b>	1
	6	125x185	2xM25 ↓ □ ↑ 2xM25	<b>272244EX</b>	1
40	2	125x125	M32 ↓ □ ↑ M32	<b>272301EX</b>	1
	3	125x125	M32 ↓ □ ↑ M32	<b>272302EX</b>	1
	4	125x125	M32 ↓ □ ↑ M32	<b>272303EX</b>	1
	6	125x185	2xM32 ↓ □ ↑ 2xM32	<b>272304EX</b>	1
63	3	125x185	M32 ↓ □ ↑ M32	<b>282402EX</b>	1
	4	125x185	M32 ↓ □ ↑ M32	<b>282403EX</b>	1
	6	125x185	2xM32 ↓ □ ↑ 2xM32	<b>282404EX</b>	1

**Equipment included:** insulated cable glands. Internal and external earth terminal.

**Characteristics:** predisposed for restricted breathing test.



CAM-EX SERIES  
Selector switches  
in aluminium alloy  
for wall mounting  
IP66/IP67



Rated current (A)	Poles	Boxes dimensions (mm)	Hole type	Palazzoli code	Pack Q.ty
16	3	125x185	M25 ↓ □ ↑ 2xM25	<b>272146EX</b>	1
	4	125x185	M25 ↓ □ ↑ 2xM25	<b>272147EX</b>	1
25	3	125x185	M25 ↓ □ ↑ 2xM25	<b>272246EX</b>	1
	4	125x185	M25 ↓ □ ↑ 2xM25	<b>272247EX</b>	1
40	3	125x185	M32 ↓ □ ↑ 2xM32	<b>272306EX</b>	1
	4	125x185	M32 ↓ □ ↑ 2xM32	<b>272307EX</b>	1
63	3	125x185	M32 ↓ □ ↑ 2xM32	<b>282406EX</b>	1
	4	252x185	M32 ↓ □ ↑ 2xM32	<b>282407EX*</b>	1

**Equipment included:** insulated cable glands. Internal and external earth terminal.

**Characteristics:** predisposed for restricted breathing test.

**Notes:** \*the protection rating is IP65.

## ALARM-EX Series

### Zone 2, 21, 22

#### SIRENS AND BELLS



ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Sirens and bells in aluminium alloy for continuous operation, suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The internal terminal board is in self-extinguishing thermosetting insulating material. Screws for internal and external earth connection. Back box and cover are treated with ecological anti-corrosion passivation with fluoro-zirconium and finished with hot polymerized scratch-resistant non-toxic polyester painting. The colour of the back box is RAL 9005 black while the cover is RAL 2011 deep orange. The gasket in non-ageing elastomer and the stainless steel screws guarantee the watertight sealing with IP66 protection rating for the sirens and IP55 for the bells.

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2012 + A11:2013**  
**EN 60079-15:2010**  
**EN 60079-31:2014**

**Directive 2006/95/CE**  
**EN 62080:2009**

**II 3G 2D/3D**

(sirens)  
**II 3G Ex nA IIC T3 Gc**  
**II 2D Ex tb IIIC T 65 °C Db IP66**

(bells)  
**II 3G Ex nA IIC T3 Gc**  
**II 3D Ex tc IIIB T 65 °C Dc IP55**

Material **Aluminium alloy**

Siren drum material **Painted zinc steel**

Colour **RAL 9005 (black) - Box**  
**RAL 2011 (deep orange) - Cover**

Protection rating (IP as per IEC/EN 60529)  
**IP66 (sirens)**  
**IP55 (bells)**

Rated voltage **24VAC ÷ 230VAC**

Frequency **50-60Hz**

Insulation class **I**

Entry cable diameter **10 - 14 mm**

Operating temperature **-20°C ÷ +40°C**

CERTIFICATES



INSTRUCTIONS





SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



ALARM-EX SERIES  
Sirens in aluminium alloy,  
with vibrating membrane  
IP66

Rated voltage (V)	Sound level (dB)	Initial power (VA)	Vibrating power (VA)	Palazzoli code	Pack Q.ty
24	105	60	25	<b>900453EX</b>	1
110	105	60	25	<b>900463EX</b>	1
230	105	60	25	<b>900473EX</b>	1

**Equipment included:** insulated cable gland M20.  
Terminal block in insulating thermosetting (GRP).  
Internal and external earth terminal.



ALARM-EX SERIES  
Directional horn  
for sirens

Max diameter (mm)	Projection siren+horn (mm)	Palazzoli code	Pack Q.ty
112	238	<b>900449</b>	1

**Equipment included:** stainless steel fixing screws.

SUITABLE FOR ZONE 2 (GAS) AND 22 (DUST)



ALARM-EX SERIES  
Bells in aluminium alloy,  
with steel drum  
IP55

Rated voltage (V)	Sound level (dB)	Initial power (VA)	Vibrating power (VA)	Palazzoli code	Pack Q.ty
24	101	13	11	<b>900253EX</b>	1
110	101	13	11	<b>900263EX</b>	1
230	101	13	11	<b>900273EX</b>	1

**Equipment included:** insulated cable gland M20.  
Terminal block in insulating thermosetting (GRP).  
Internal and external earth terminal.

# TAIS MIGNON-EX Series

## Zone 2, 21, 22

SMALL CONTROL DEVICES  
IN ANTISTATIC THERMOSETTING (GRP)



	GAS			DUST		
ZONE	0	1	2	20	21	22
USABLE			X		X	X

Small control devices in antistatic thermosetting (GRP) suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer.

Conformity to standards	<p>ATEX Directive 94/9/CE and 2014/34/UE EN 60079-0:2012 + A11:2013 EN 60079-15:2010 EN 60079-31:2014</p> <p>ATEX Directive 2006/95/CE EN 60669-1:1999 + A1:2002 + A2:2008 + IS1:2009 EN 60947-5-1:2004 + A1:2009 (Push-buttons)</p>
Atex execution	<p>Ⓔ II 3G 2D</p> <p>Ex nR IIC T6 Gc Ex tc IIIC T 70 °C Dc IP66</p>
Body material	Antistatic thermosetting (GRP)
Surface resistivity	<10 <sup>9</sup> Ω (prevention of electrostatic charge deposit)
Protection rating (IP as per IEC/EN 60529)	IP66
Colour	RAL 9005 (black)
Resistance to abnormal heat and fire ("Glow Wire" as per IEC/EN 60695-2-10)	960°C
Self-extinguishing grade (as per UL94)	V0
Insulation class	II
Entry cable diameter	10 - 14 mm
Operating temperature	-20°C ÷ +40°C

CERTIFICATES	INSTRUCTIONS



SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



TAIS MIGNON-EX SERIES  
Switches  
in thermosetting (GRP),  
for wall mounting  
IP66

Electrical scheme	Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Q.ty
One-way	1P		16A 250V~/ 10A 400V~	<b>202271EX</b>	1
One-way	2P		16A 250V~/ 10A 400V~	<b>202282EX</b>	1
Two-way	1P		16A 250V~/ 10A 400V~	<b>202276EX</b>	1

**Equipment included:** insulated cable gland M20.  
**Characteristics:** the lower entry is the predisposition for restricted breathing test.



TAIS MIGNON-EX SERIES  
Selector switches  
in thermosetting (GRP),  
for wall mounting  
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Q.ty
1P		16A 250V~/ 10A 400V~	<b>202275EX</b>	1

**Equipment included:** insulated cable gland M20.  
**Characteristics:** the lower entry is the predisposition for restricted breathing test. Removing the internal jumper, the device can be used as two independent one-pole switches.



TAIS MIGNON-EX SERIES  
Push-buttons  
in thermosetting (GRP),  
for wall mounting  
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Q.ty
1 NO		10A 400V~	<b>261435EX</b>	1
1 NC		10A 400V~	<b>261445EX</b>	1

**Equipment included:** insulated cable gland M20.  
**Characteristics:** the lower entry is the predisposition for restricted breathing test.



TAIS MIGNON-EX SERIES  
Start-stop push-button panel  
in thermosetting (GRP),  
for wall mounting  
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Q.ty
1P		10A 400V~	<b>261432EX</b>	1

**Equipment included:** insulated cable gland M20.  
**Characteristics:** the lower entry is the predisposition for restricted breathing test.



TAIS MIGNON-EX SERIES  
On-Off push-button panel  
in thermosetting (GRP),  
for wall mounting  
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Q.ty
1P		10A 400V~	<b>261433EX</b>	1

**Equipment included:** insulated cable gland M20.  
**Characteristics:** the lower entry is the predisposition for restricted breathing test.

## RONDÒ-EX Series

### Zone 2, 21, 22

SMALL CONTROL DEVICES IN ALUMINIUM ALLOY



	GAS			DUST		
ZONE	0	1	2	20	21	22
USABLE			X		X	X

Small devices and watertight enclosures in aluminium alloy suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9 EC and 2014/34/UE. Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium and finished with hot polymerized scratch-resistant non-toxic polyester painting. The cover is attached to the back box by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. Predisposed for internal and external earth connection.

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2012 + A11:2013**  
**EN 60079-15:2010**  
**EN 60079-31:2014**  
**ATEX Directive 2006/95/CE**  
**EN 60669-1:1999 + A1:2002 + A2:2008 + IS1:2009**  
**EN 60947-5-1:2004 + A1:2009 (Push-button)**

Atex execution  
**Ex II 3G 2D**  
**Ex nR IIC T6 Gc**  
**Ex tc IIIC T 70 °C Dc IP66**

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium**

Painting **Hot polymerized non-toxic polyester**



Colour **RAL 9005 (black)**

Protection rating (IP as per IEC/EN 60529) **IP66**

Insulation class **I**

Entry cable diameter **10 - 14 mm**

Operating temperature **-20°C ÷ +40°C**

CERTIFICATES	INSTRUCTIONS
	



## SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



**RONDÒ-EX SERIES**  
One-way switches  
in aluminium alloy  
for wall mounting  
IP66

Poles	Hole type	Rated current/voltage	Palazzoli code	Pack Q.ty
1P	M20	16A 250V~ / 10A 400V~	<b>201151EX</b>	1
2P	M20	16A 250V~ / 10A 400V~	<b>201152EX</b>	1

**Equipment included:** insulated cable gland M20. Internal and external earth terminal.

**Characteristics:** the lower entry is the predisposition for restricted breathing test.



**RONDÒ-EX SERIES**  
Two-way switches  
in aluminium alloy  
for wall mounting  
IP66

Poles	Hole type	Rated current/voltage	Palazzoli code	Pack Q.ty
1P	M20	16A 250V~ / 10A 400V~	<b>201156EX</b>	1

**Equipment included:** insulated cable gland M20. Internal and external earth terminal.

**Characteristics:** the lower entry is the predisposition for restricted breathing test.



**RONDÒ-EX SERIES**  
Push-buttons  
in aluminium alloy,  
for wall mounting  
IP66

Poles	Hole type	Rated current/voltage	Palazzoli code	Pack Q.ty
1NO	M20	10A 400V~	<b>261021EX</b>	1

**Equipment included:** insulated cable gland M20. Internal and external earth terminal.

**Characteristics:** the lower entry is the predisposition for restricted breathing test.

## RINO-EX Series

### Zone 2, 21, 22

OVAL AND ROUND BULKHEAD LAMPS  
IN ALUMINIUM ALLOY





ZONE	GAS			DUST		
	0	1	2	20	21	22
USABLE			X		X	X

Watertight bulkhead lamps in aluminium suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE.

The body of the bulkhead lamp is treated with ecological anti-corrosion passivation with fluoro-zirconium and finished with hot polymerized scratch-resistant non-toxic polyester painting. The colour of the body is RAL 7035 light grey. The diffuser is in prismatic tempered glass.

The protection cage is RAL 2011 deep orange and is attached to the body by means of stainless steel screws, the sealing is guaranteed by a gasket in non-ageing elastomer. Predisposed for entry through an M20 cable gland. Complete with internal and external earth screw.

CERTIFICATES	INSTRUCTIONS
	

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2012 + A11:2013**  
**EN 60079-15:2010**  
**EN 60079-31:2014**

**Directive 2006/95/CE**  
**EN 60598-1:2008 + A11: 2009**  
**EN 60598-2-1:1989**

Atex execution  
**Ex II 3G 2D**  
**Ex nA IIC T 145/160/190 °C (T3) Gc**  
**Ex tb IIIC T 75/85/90 °C Db IP65**

Body material  
**Aluminium alloy**

Surface treatment  
**Passivation with fluoro-zirconium**

Painting  
**Hot polymerized non-toxic polyester**

Diffuser material  
**Prismatic tempered glass**

Protective cage material  
**Painted tropicalized steel wire**

Colour  
**RAL 7035 (light grey)**  
**Back box**  
**RAL 2011 (deep orange)**  
**Protection cage**

Protection rating (IP as per IEC/EN 60529)  
**IP65**

Rated voltage  
**230V**

Frequency  
**50-60Hz**

Max cable section  
**2,5 mm<sup>2</sup>**

Entry cable diameter  
**10 - 14 mm**

Lampholder type  
**E27 type in porcelain**

Insulation class  
**I**

Operating temperature  
**-20°C ÷ +40°C**



SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



RINO-EX SERIES  
Oval bulkhead lamps  
in aluminium alloy  
with steel protective cage  
230V IP65



Power (W)	Dimensions (mm)	Palazzoli code	Pack Q.ty
18	199x112	<b>831072EX</b>	1
28	226x130	<b>831172EX</b>	1
53	295x170	<b>831272EX</b>	1

Equipment included: internal and external earth screw and cable gland.



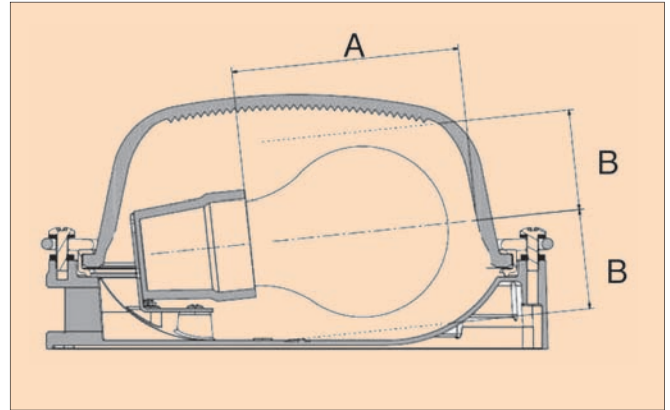
RINO-EX SERIES  
Round bulkhead lamps  
in aluminium alloy  
with steel protective cage  
230V IP65



Power (W)	Dimensions (mm)	Palazzoli code	Pack Q.ty
28	200x182	<b>830072EX</b>	1

Equipment included: internal and external earth screw and cable gland.

Bulkhead lamp correspondence



Dimensions

Lamp type	Power (W)	A (mm)	B (mm)
	18	90	38
	28	110	40
	53	168	43
	28	90	38

# RINO-EX Series

## Zone 2, 21, 22

### LIGHTING FIXTURES IN STAINLESS STEEL



	GAS			DUST		
ZONE	0	1	2	20	21	22
USABLE			X		X	X

Watertight lighting fixture in stainless steel AISI 304 suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The diffuser is in tempered glass. The fixing hooks are in stainless steel AISI 304. The sealing is guaranteed by a reinforced gasket in non-ageing elastomer. Complete with corrosion resistant non-loosening terminals and non-sparking lampholder. Supplied with M20 cable gland. Complete with internal and external earth connection.

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2009 + A11:2013**  
**EN 60079-15:2010**  
**EN 60079-31:2009**  
**Directive 2006/95/CE**  
**EN 60598-1:2008 + A11: 2009**  
**EN 60598-2-1:1989**

Atex execution  
**Ex II 3G 2D**  
**Ex nA IIC T4 Gc**  
**Ex tb IIIC T 85 °C Db IP66**  
**Ex nR IIC T6 Gc**  
**Ex tb IIIC T 70 °C Db IP66 (emergency)**

Body material  
**Stainless steel AISI 304**

Diffuser material  
**Tempered glass**

Protection rating (IP as per IEC/EN 60529)  
**IP66**

Rated voltage  
**230V**

Frequency  
**50-60Hz**

Lampholder type  
**G13 T8**

Max cable section  
**2,5 mm<sup>2</sup>**

Entry cable diameter  
**10 - 14 mm**

Emergency battery lifetime  
**1h**

Insulation class  
**I**

Operating temperature  
**-20°C ÷ +40°C**

CERTIFICATES	INSTRUCTIONS



SUITABLE FOR ZONE 2 (GAS) AND 21-22 (DUST)



**RINO-EX SERIES**  
Stainless steel-glass  
lighting fixtures  
with white reflector  
for T8 tubes  
230V IP66



M20 cable gland  
technopolymer

Lamp wattage (W)	Power supply	Palazzoli code	Pack Q.ty
1X18	electronic	<b>822131EX</b>	1
1X36	electronic	<b>822231EX</b>	1
1X58	electronic	<b>822331EX</b>	1
2X18	electronic	<b>822132EX</b>	1
2X36	electronic	<b>822232EX</b>	1
2X58	electronic	<b>822332EX</b>	1
(1+1)x18	emergency	<b>822111EX</b>	1
(1+1)x36	emergency	<b>822211EX</b>	1
(1+1)x58	emergency	<b>822311EX</b>	1

**Equipment included:** pair of hooks in AISI 304 steel for pendant installation.  
**Characteristics:** fluorescent tubes are not included.



**RINO-EX SERIES**  
Stainless steel-glass  
lighting fixtures  
with symmetrical reflector  
for T8 tubes  
230V IP66



M20 cable gland  
brass

Lamp wattage (W)	Power supply	Palazzoli code	Pack Q.ty
1X18	electronic	<b>820131EX</b>	1
1X36	electronic	<b>820231EX</b>	1
1X58	electronic	<b>820331EX</b>	1
2X18	electronic	<b>820132EX</b>	1
2X36	electronic	<b>820232EX</b>	1
2X58	electronic	<b>820332EX</b>	1
(1+1)x18	emergency	<b>820111EX</b>	1
(1+1)x36	emergency	<b>820211EX</b>	1
(1+1)x58	emergency	<b>820311EX</b>	1

**Equipment included:** pair of hooks in AISI 304 steel for pendant installation.  
**Characteristics:** fluorescent tubes are not included.



**RINO SERIES**  
Pair of hooks  
for pendant mounting  
of steel lighting fixtures  
with through coupling

Manufacture material	Palazzoli code	Pack Q.ty
stainless steel AISI 304	<b>820001</b>	1

**Equipment included:** lighting fixture washers and fixing nuts.



**RINO SERIES**  
Pair of swivelling supports  
for ceiling or wall mounting  
of steel lighting fixtures  
with through coupling

Rotating angle	Manufacture material	Palazzoli code	Pack Q.ty
± 75°	stainless steel AISI 304	<b>820000</b>	1

**Equipment included:** lighting fixture washers and fixing nuts.



**RINO SERIES**  
Pair of collars  
for mounting on tube  
of steel lighting fixtures  
with through coupling

Manufacture material	Tube diameter ø (mm)	Palazzoli code	Pack Q.ty
stainless steel AISI 304	60	<b>820006</b>	1

# RINO-EX Series

Zone 1, 2, 21, 22

LIGHTING FIXTURES IN STAINLESS STEEL



	GAS			DUST		
ZONE	0	1	2	20	21	22
USABLE		X	X		X	X

Watertight lighting fixtures in stainless steel AISI 304 suitable for applications in areas at risk of explosive atmospheres as defined in ATEX Directive 94/9/EC and 2014/34/UE. The diffuser is in tempered glass. The fixing hooks are in stainless steel AISI 304. The sealing is guaranteed by a reinforced gasket in non-ageing elastomer. Complete with corrosion resistant non-loosening terminals and non-sparking lampholder. Supplied with M20 cable gland. Complete with internal and external earth connection.

Conformity to standards  
**ATEX Directive 94/9/CE and 2014/34/UE**  
**EN 60079-0:2012 + A11:2013**  
**EN 60079-15:2010**  
**EN 60079-31:2014**  
**Directive 2006/95/CE**  
**EN 60598-1:2008 + A11: 2009**  
**EN 60598-2-1:1989**

Atex execution  
**Ex II 2G 2D**  
**Ex e mb IIC T5 Gb**  
**Ex tb IIIC T 95°C Db IP66**

Body material  
**Stainless steel AISI 304**

Diffuser material  
**Tempered glass**

Protection rating (IP as per IEC/EN 60529)  
**IP66**

Rated voltage  
**230V**

Frequency  
**50-60Hz**

Lampholder type  
**G13 T8**

Max cable section  
**2,5 mm<sup>2</sup>**

Entry cable diameter  
**10 - 14 mm**

Emergency battery lifetime  
**1h**

Insulation class  
**I**

Operating temperature  
**-20°C ÷ +40°C**

CERTIFICATES	INSTRUCTIONS



SUITABLE FOR ZONE 1-2 (GAS) AND 21-22 (DUST)



**RINO-EX SERIES**  
Stainless steel-glass  
lighting fixtures  
with white reflector  
230V IP66



M20 cable gland  
technopolymer

Lamp wattage (W)	Power supply	Palazzoli code	Pack Q.ty
1X18	electronic	<b>822181EX</b>	1
1X36	electronic	<b>822281EX</b>	1
2X18	electronic	<b>822182EX</b>	1
2X36	electronic	<b>822282EX</b>	1

**Equipment included:** pair of hooks in AISI 304 steel for pendant installation.  
**Characteristics:** fluorescent tubes are not included.



**RINO SERIES**  
Pair of hooks  
for pendant mounting  
of steel lighting fixtures  
with screw coupling

Manufacture material	Palazzoli code	Pack Q.ty
stainless steel AISI 304	<b>820011</b>	1

**Equipment included:** screws and accessories for fixing.



**RINO SERIES**  
Pair of swivelling supports  
for ceiling or wall mounting  
of steel lighting fixtures  
with screw coupling

Rotating angle	Manufacture material	Palazzoli code	Pack Q.ty
± 75°	stainless steel AISI 304	<b>820010</b>	1

**Equipment included:** screws and accessories for fixing.



**RINO SERIES**  
Pair of collars  
for mounting on tube  
of steel lighting fixtures  
with screw coupling

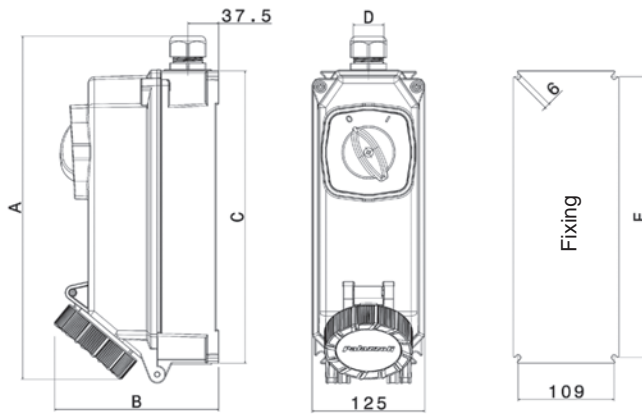
Manufacture material	Tube diameter ø (mm)	Palazzoli code	Pack Q.ty
stainless steel AISI 304	60	<b>820016</b>	1

**Equipment included:** screws and accessories for fixing.

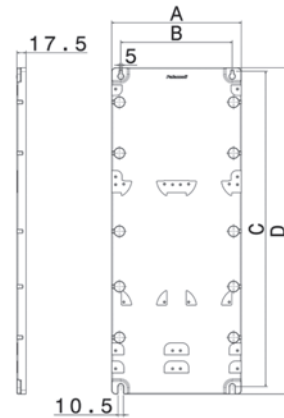
# Dimensions

## TAIS-EX Series

Sockets



Mounting plates

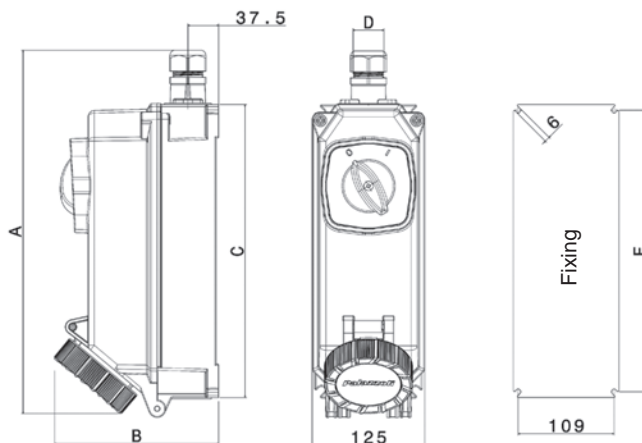


Rated current (A)	Poles	Ø entry cable (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
16	2P+⊕	12÷18	380	159	335	Ø25	319
	3P+⊕			164			
	3P+N+⊕			175			
20 / 32	2P+⊕	16÷25	380	177	335	Ø32	319
	3P+⊕			185			
	3P+N+⊕						
40 / 63	2P+⊕	16÷25	423	203	370	Ø32	354
	3P+⊕						
	3P+N+⊕						

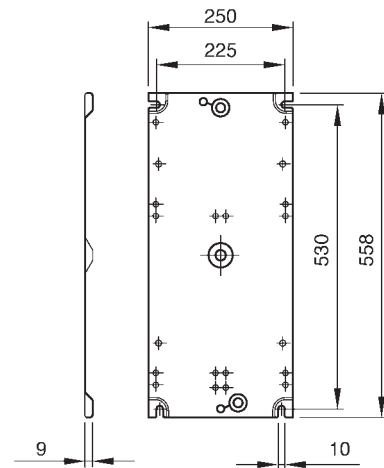
Code	A (mm)	B (mm)	C (mm)	D (mm)
532800	125	110		
532802	250	215	609	630
532804	380	345		

## ALUPRES-EX Series

Sockets

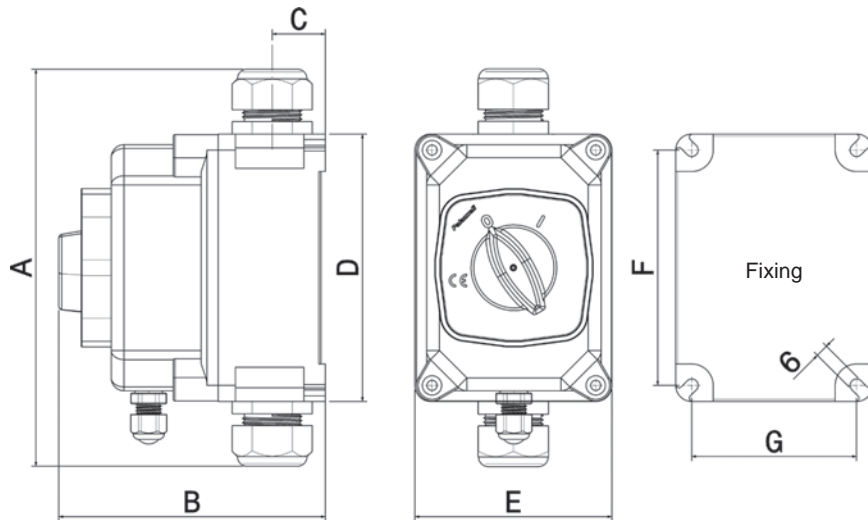


Mounting plates



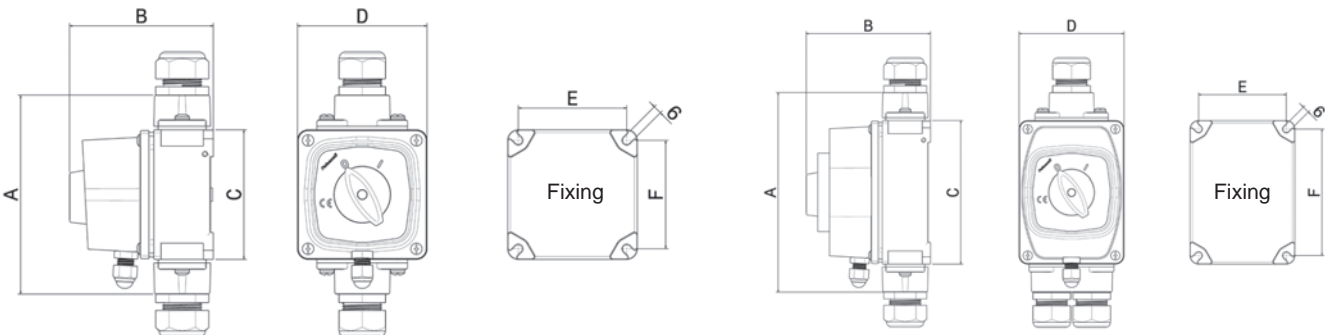
Rated current (A)	Poles	Ø entry cable (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
16	2P+⊕	12÷18	350	150	315	M25	300
	3P+⊕			155			
	3P+N+⊕			160			
25 / 32	2P+⊕	16÷25	390	168	315	M32	300
	3P+⊕			170			
	3P+N+⊕						
40 / 63	2P+⊕	16÷25	430	188	355	M32	340
	3P+⊕						
	3P+N+⊕						

## CAM-EX Series in thermosetting (GRP)



Rated current (A)	Ø entry cable (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	A (mm)
10-16	10÷14	175	122	25	125	92	111	78
20-25	12÷18							
32-40		16÷25	260	165	37,5	185	125	169
50-63								

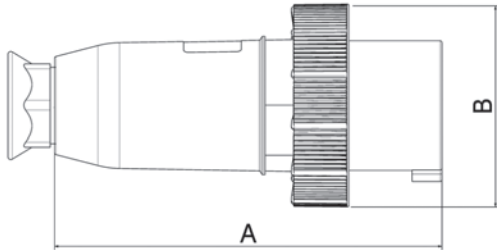
## CAM-EX Series in aluminium alloy



Code	Ø entry cable (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
272141EX	12÷18	137,5	102	92	92	77	77
272142EX							
272143EX		-	148	185	125	110	170
272144EX							
272241EX							
272242EX	16÷25	137,5	102	92	92	77	77
272243EX							
272244EX		-	148	185	125	110	170
272301EX							
272302EX							
272303EX	232	137	125	125	110	110	170
272304EX							
272402EX							
272403EX							
272404EX	292	148	185	125	110	170	170

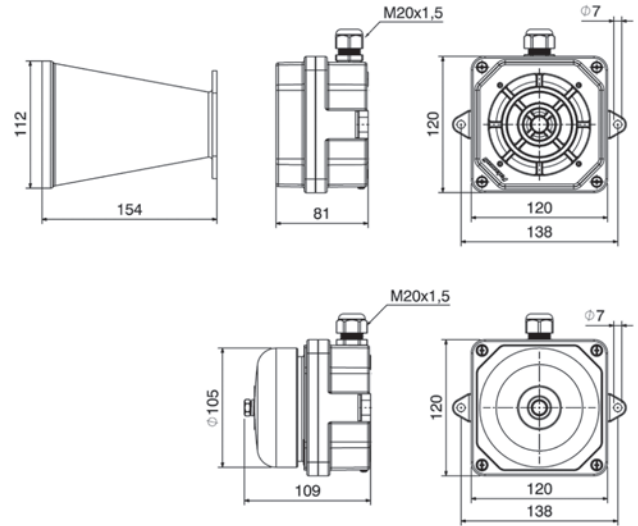
Code	Ø entry cable (mm)	Ø exit cable (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)			
272146EX	12÷18	-	-	148	185	125	110	170			
272147EX											
272246EX				16÷25	-	-	148	185	125	110	170
272247EX											
272306EX	16÷25	-	-	148	185	125	110	170			
272307EX											
272406EX				-	190	252	185	235	171		
272407EX											

## CEE-EX Series

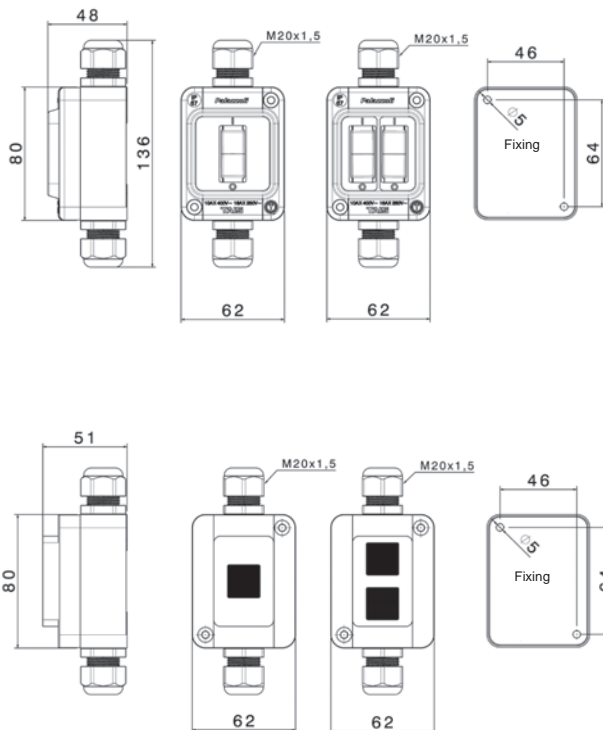


Rated current (A)	Poles	A (mm)	B (mm)	Entry threading
16	2P+⊕	112	73	Pg 13,5
	3P+⊕	117	80	Pg 16
	3P+N+⊕	124	88	
32	2P+⊕	141	94	Pg 21
	3P+⊕		101	
	3P+N+⊕			
63	2P+⊕	208	110	Pg 29
	3P+⊕			
	3P+N+⊕			

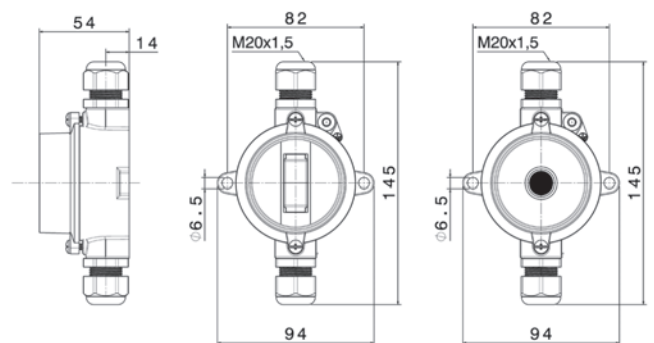
## ALARM-EX Series



## TAIS MIGNON-EX Series

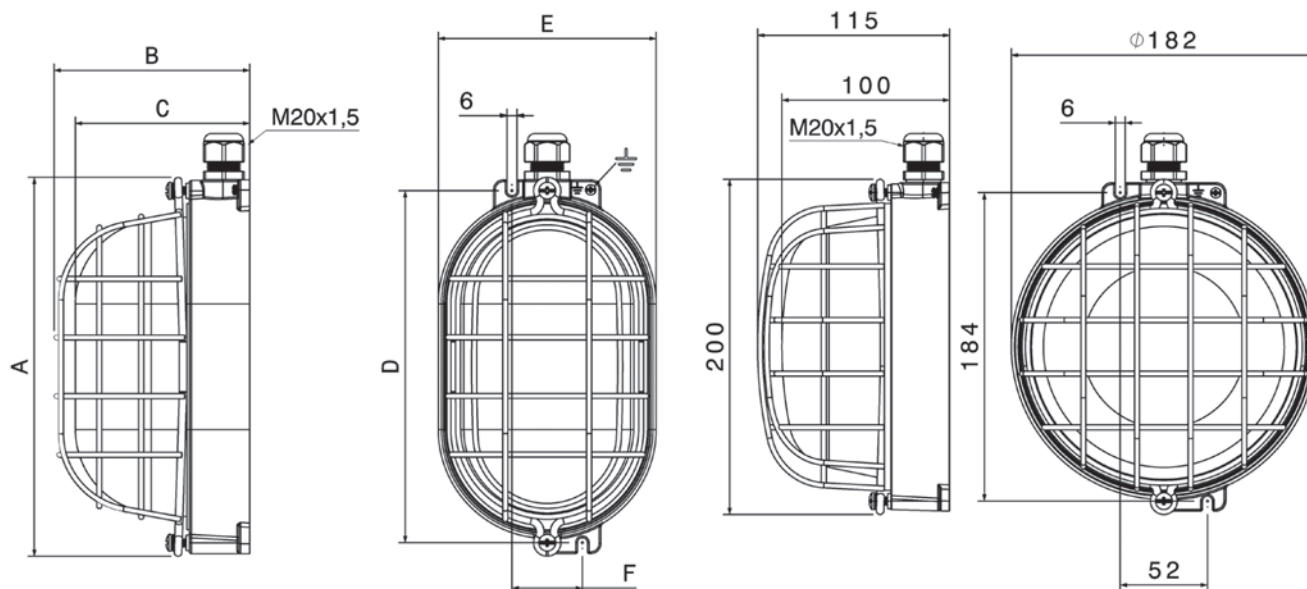


## RONDÒ-EX Series



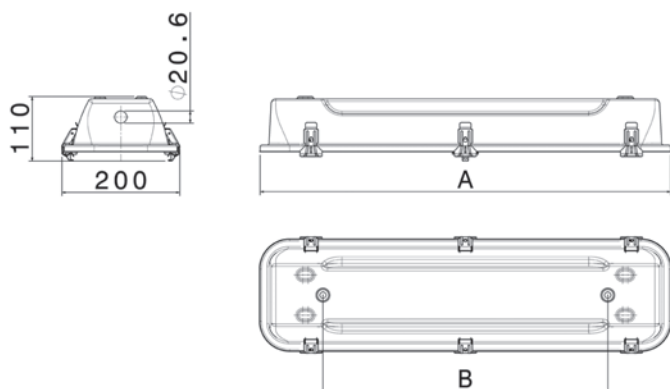


## RINO-EX Series



Wattage (W)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
18	199	119	100	184	112	42
28	226	122	105	210	130	42
53	295	142	127	278	170	52

## RINO-EX Series



Wattage (W)	A (mm)	B (mm)
18	690	480
36	1300	1090
58	1600	1395

Palazzoli code	Marks	Pack Q.ty	Catalogue page
<b>1EX</b>			
150021EX	10-11	1	21
<b>2EX</b>			
201151EX	10	1	37
201152EX	10	1	37
201156EX	10	1	37
202271EX	10	1	35
202275EX	10	1	35
202276EX	10	1	35
202282EX	10	1	35
261021EX	10	1	37
261432EX	10	1	35
261433EX	10	1	35
261435EX	10	1	35
261445EX	10	1	35
272141EX	10-11	1	31
272142EX	10-11	1	31
272143EX	10-11	1	31
272144EX	10-11	1	31
272146EX	10-11	1	31
272147EX	10-11	1	31
272241EX	10-11	1	31
272242EX	10-11	1	31
272243EX	10-11	1	31
272244EX	10-11	1	31
272246EX	10-11	1	31
272247EX	10-11	1	31
272301EX	10-11	1	31
272302EX	10-11	1	31
272303EX	10-11	1	31
272304EX	10-11	1	31
272306EX	10-11	1	31
272307EX	10-11	1	31
282402EX	10-11	1	31
282403EX	10-11	1	31
282404EX	10-11	1	31
282406EX	10-11	1	31
282407EX	10-11	1	31
292101EX	10-11	1	29
292102EX	10-11	1	29
292103EX	10-11	1	29
292201EX	10-11	1	29
292202EX	10-11	1	29
292203EX	10-11	1	29
292301EX	10-11	1	29
292302EX	10-11	1	29
292303EX	10-11	1	29
292411EX	10-11	1	29
292412EX	10-11	1	29
292413EX	10-11	1	29

Palazzoli code	Marks	Pack Q.ty.	Catalogue page
<b>4EX</b>			
460226EX	10-11	1	15-16
460236EX	10-11	1	15-16
460246EX	10-11	1	15-16
460336EX	10-11	1	15-16
460346EX	10-11	1	15-16
463124EX	10-11	1	9-10
463126EX	10-11	1	9-10
463129EX	10-11	1	9-10
463134EX	10-11	1	9-10
463136EX	10-11	1	9-10
463137EX	10-11	1	9-10
463139EX	10-11	1	9-10
463144EX	10-11	1	9-10
463146EX	10-11	1	9-10
463147EX	10-11	1	9-10
463149EX	10-11	1	9-10
463324EX	10-11	1	10
463334EX	10-11	1	10
463326EX	10-11	1	10
463329EX	10-11	1	10
463336EX	10-11	1	10
463337EX	10-11	1	10
463339EX	10-11	1	10
463346EX	10-11	1	10
463347EX	10-11	1	10
463349EX	10-11	1	10
464210EX	10-11	1	9-10
464220EX	10-11	1	9-10
464230EX	10-11	1	9-10
464310EX	10-11	1	9-10
464320EX	10-11	1	9-10
464330EX	10-11	1	9-10
464336EX	10-11	1	10
464339EX	10-11	1	10
464346EX	10-11	1	10
464410EX	10-11	1	9-10
464420EX	10-11	1	9-10
464430EX	10-11	1	9-10
464621EX	10-11	1	9-10
464711EX	10-11	1	9-10
464721EX	10-11	1	9-10
464722EX	10-11	1	9
464731EX	10-11	1	9-10
464732EX	10-11	1	9
464811EX	10-11	1	9-10
464831EX	10-11	1	9-10
464832EX	10-11	1	9
465124EX	10-11	1	15-16
465126EX	10-11	1	15-16

Palazzoli code	Marks	Pack Q.ty	Catalogue page
465129EX	10-11	1	15-16
465134EX	10-11	1	15-16
465136EX	10-11	1	15-16
465137EX	10-11	1	15-16
465139EX	10-11	1	15-16
465144EX	10-11	1	15-16
465146EX	10-11	1	15-16
465147EX	10-11	1	15-16
465149EX	10-11	1	15-16
465324EX	10-11	1	16
465326EX	10-11	1	16
465329EX	10-11	1	16
465334EX	10-11	1	16
465336EX	10-11	1	16
465337EX	10-11	1	16
465339EX	10-11	1	16
465344EX	10-11	1	16
465346EX	10-11	1	16
465347EX	10-11	1	16
465349EX	10-11	1	16
466126EX	10-11	1	15-16
466136EX	10-11	1	15-16
466146EX	10-11	1	15-16
467126EX	10-11	1	9-10
467136EX	10-11	1	9-10
467146EX	10-11	1	9-10
470226EX	10-11	1	9-10
470236EX	10-11	1	9-10
470246EX	10-11	1	9-10
470336EX	10-11	1	9-10
470346EX	10-11	1	9-10
472236EX	10-11	1	15-16
472237EX	10-11	1	15
472246EX	10-11	1	15-16
472247EX	10-11	1	15
472256EX	10-11	1	15-16
472257EX	10-11	1	15
472336EX	10-11	1	15-16
472337EX	10-11	1	15
472346EX	10-11	1	15-16
472347EX	10-11	1	15
472356EX	10-11	1	15-16
472357EX	10-11	1	15
472436EX	10-11	1	15-16
472437EX	10-11	1	15
472446EX	10-11	1	15-16
472447EX	10-11	1	15
472456EX	10-11	1	15-16
472457EX	10-11	1	15
472546EX	10-11	1	15-16

Palazzoli code	Marks	Pack Q.ty	Catalogue page
472547EX	10-11	1	15
472556EX	10-11	1	15-16
472557EX	10-11	1	15
472611EX	10-11	1	9-10
472612EX	10-11	1	9
472621EX	10-11	1	9-10
472622EX	10-11	1	9
472631EX	10-11	1	9-10
472632EX	10-11	1	9
472711EX	10-11	1	9-10
472712EX	10-11	1	9
472721EX	10-11	1	9-10
472722EX	10-11	1	9
472731EX	10-11	1	9-10
472732EX	10-11	1	9
472751EX	10-11	1	9-10
472752EX	10-11	1	9
472811EX	10-11	1	9-10
472812EX	10-11	1	9
472821EX	10-11	1	9-10
472822EX	10-11	1	9
472831EX	10-11	1	9-10
472832EX	10-11	1	9
472841EX	10-11	1	9-10
472842EX	10-11	1	9
477203EX	10-11	1	7
477206EX	10-11	1	7
477207EX	10-11	1	7
477213EX	10-11	1	7
477216EX	10-11	1	7
477217EX	10-11	1	7
477223EX	10-11	1	7
477226EX	10-11	1	7
477227EX	10-11	1	7
477303EX	10-11	1	7
477306EX	10-11	1	7
477307EX	10-11	1	7
477313EX	10-11	1	7
477316EX	10-11	1	7
477317EX	10-11	1	7
477323EX	10-11	1	7
477326EX	10-11	1	7
477327EX	10-11	1	7
477403EX	10-11	1	7
477406EX	10-11	1	7
477407EX	10-11	1	7
477413EX	10-11	1	7
477416EX	10-11	1	7
477417EX	10-11	1	7
477423EX	10-11	1	7

Mark legend: 10 =  ATEX 11 =  IECEX

Palazzoli code	Marks	Pack Q.ty	Catalogue page
477426EX	10-11	1	7
477427EX	10-11	1	7
477513EX	10-11	1	7
477516EX	10-11	1	7
477517EX	10-11	1	7
477523EX	10-11	1	7
477526EX	10-11	1	7
477527EX	10-11	1	7
<b>5EX</b>			
511910EX	10-11	1	21
511911EX	10-11	1	21
511912EX	10-11	1	21
511913EX	10-11	1	21
511914EX	10-11	1	17
511917EX	10-11	1	21
511919EX	10-11	1	17
511920EX	10-11	1	21
511921EX	10-11	1	21
511922EX	10-11	1	21
511923EX	10-11	1	21
532005EX	10-11	1	19
532006EX	10-11	1	19
532015EX	10-11	1	19
532016EX	10-11	1	19
532017EX	10-11	1	19
532018EX	10-11	1	19
532035EX	10-11	1	19
532045EX	10-11	1	19
532055EX	10-11	1	19
532116EX	10-11	1	19
532117EX	10-11	1	19
532118EX	10-11	1	19
532200EX	10-11	1	19
532201EX	10-11	1	19
532202EX	10-11	1	19
532203EX	10-11	1	19
532204EX	10-11	1	19
532240EX	10-11	1	11
532242EX	10-11	1	11
532244EX	10-11	1	11
538421EX	10-11	1	11
538429EX	10-11	1	11
538436EX	10-11	1	11
540061EX	10-11	1	21
540063EX	10-11	1	21
540065EX	10-11	1	21
540180EX	10-11	1	17-21
540185EX	10-11	1	17
540186EX	10-11	1	17
540190EX	10-11	1	21

Palazzoli code	Marks	Pack Q.ty	Catalogue page
540195EX	10-11	1	21
571050EX	10-11	1	21
541055EX	10-11	1	17-21
571009EX	10-11	50	25
571011EX	10-11	50	25
571013EX	10-11	50	25
571016EX	10-11	50	25
571021EX	10-11	20	25
571029EX	10-11	20	25
571036EX	10-11	10	25
571042EX	10-11	5	25
571048EX	10-11	5	25
571109EX	10-11	50	25
571111EX	10-11	50	25
571113EX	10-11	50	25
571116EX	10-11	50	25
571121EX	10-11	20	25
571129EX	10-11	20	25
571136EX	10-11	10	25
571142EX	10-11	5	25
571148EX	10-11	5	25
580360EX	10-11	1	27
580361EX	10-11	1	27
580364EX	10-11	1	27
580365EX	10-11	1	27
580394EX	10-11	1	27
580395EX	10-11	1	27
580396EX	10-11	1	27
581012EX	10-11	50	26
581016EX	10-11	50	26
581020EX	10-11	50	26
581025EX	10-11	20	26
581032EX	10-11	20	26
581040EX	10-11	20	26
581050EX	10-11	10	26
581063EX	10-11	5	26
581112EX	10-11	50	26
581116EX	10-11	50	26
581120EX	10-11	50	26
581125EX	10-11	20	26
581132EX	10-11	20	26
581140EX	10-11	20	26
581150EX	10-11	10	26
581163EX	10-11	5	26
582112EX	10-11	50	27
582116EX	10-11	50	27
582120EX	10-11	50	27
582125EX	10-11	20	27
582132EX	10-11	20	27
582140EX	10-11	20	27

Palazzoli code	Marks	Pack Q.ty	Catalogue page
582150EX	10-11	10	27
582163EX	10-11	5	27
<b>8EX</b>			
820111EX	10-11	1	41
820131EX	10-11	1	41
820132EX	10-11	1	41
820211EX	10-11	1	41
820231EX	10-11	1	41
820232EX	10-11	1	41
820311EX	10-11	1	41
820331EX	10-11	1	41
820332EX	10-11	1	41
822111EX	10-11	1	41
822131EX	10-11	1	41
822132EX	10-11	1	41
822181EX	10-11	1	43
822182EX	10-11	1	43
822211EX	10-11	1	41
822281EX	10-11	1	43
822282EX	10-11	1	43
822231EX	10-11	1	41
822232EX	10-11	1	41
822311EX	10-11	1	41
822331EX	10-11	1	41
822332EX	10-11	1	41
830072EX	10-11	1	39
831072EX	10-11	1	39
831172EX	10-11	1	39
831272EX	10-11	1	39
<b>9EX</b>			
900253EX	10	1	33
900263EX	10	1	33
900273EX	10	1	33
900453EX	10-11	1	33
900463EX	10-11	1	33
900473EX	10-11	1	33
<b>4</b>			
478126		1	11-17
478136		1	11-17
478146		1	11-17
478206		1	11-17
478246		1	11-17
478306		1	11-17
<b>5</b>			
532700		1	19
532701		1	19
532702		1	19
532703		1	19
532704		1	19
532705		1	19






















Palazzoli code	Marks	Pack Q.ty	Catalogue page
532714		1	19
532715		1	19
532716		1	19
532717		1	19
532718		1	19
532836		1	17
532876		1	17
538410		1	11-19
538800		1	11
538802		1	11
538804		1	11
571209		50	25
571211		50	25
571213		50	25
571216		50	25
571221		25	25
571229		20	25
571236		10	25
571242		5	25
571248		5	25
581212		50	26
581216		50	26
581220		50	26
581225		50	26
581232		50	26
581240		20	26
581250		10	26
581263		5	26
582212		50	27
582216		50	27
582220		50	27
582225		25	27
582232		20	27
582240		10	27
582250		10	27
582263		5	27
<b>8</b>			
820000		1	41
820001		1	41
820006		1	41
820010		1	43
820011		1	43
820016		1	43
<b>9</b>			
900449		1	33

Mark legend: 10 =  ATEX 11 =  IECEx



# Palazzoli

## Palazzoli range for ATEX zones

		GAS		DUST	
		ZONE 1	ZONE 2	ZONE 21	ZONE 22
POWER SUPPLY	Industrial plugs in antistatic material		CEE-EX for zones 2-21-22		
	Interlocked sockets in antistatic thermosetting (GRP)		TAIS-EX for zones 2-21-22		
	Interlocked sockets in aluminium alloy		ALUPRES-EX for zones 2-21-22		
JUNCTION	Boxes in antistatic thermosetting (GRP)		TAIS-EX for zones 1-2-21-22		
	Boxes in aluminium alloy		ALUPRES-EX for zones 1-2-21-22		
	Cable glands and adaptors		UNI-EX for zones 1-2-21-22		
CONTROL - SIGNALLING	Rotary control devices in antistatic thermosetting (GRP)		CAM-EX for zones 2-21-22		
	Rotary control devices in aluminium alloy		CAM-EX for zones 2-21-22		
	Sirens and bells		ALARM-EX for zones 2-21-22		
	Small control devices in antistatic thermosetting (GRP)		TAIS MIGNON-EX for zones 2-22		
	Small control devices in aluminium alloy		RONDO'-EX for zones 2-22		
LIGHTING	Oval and round bulkhead lamps in aluminium alloy		RINO-EX for zones 2-21-22		
	Lighting fixtures in stainless steel		RINO-EX for zones 1-2-21-22	 <b>new</b>	