



ATEX

SECTION



ATEX



MOBILE PLUGS

X-CEE-EX

plugs in antistatic insulating material

page 298



zone 2-21-22

INTERLOCKED SOCKET-OUTLETS

TAIS-EX

interlocked socket-outlets in antistatic thermosetting GRP

page 300



zone 2-21-22

TAIS-EX

boxes in antistatic thermosetting GRP for combinations

page 304



zone 2-21-22

ALUPRES-EX

interlocked socket-outlets in aluminium alloy

page 306



zone 2-21-22

ALUPRES-EX

boxes in aluminium alloy for combinations

page 309



zone 2-21-22

JUNCTION BOXES

TAIS-EX

boxes in antistatic thermosetting GRP

page 310



zone 1-2-21-22

ALUPRES-EX

boxes in aluminium alloy

page 312



zone 1-2-21-22

UNI-EX

Cable glands and adaptors

page 316



zone 1-2-21-22

UNI-EX

cable glands for armoured cables

page 319



zone 1-2-21-22



CONTROL DEVICES

CAM-EX

rotary devices in antistatic
thermosetting GRP

page 320



zone 2-21-22

CAM-EX

rotary devices
in aluminium alloy

page 322



zone 2-21-22

SMALL CONTROL AND SIGNALLING DEVICES

TAIS MIGNON-EX

small devices in antistatic
thermosetting GRP

page 324



zone 2-22

RONDÓ-EX

small devices
in aluminium alloy

page 326



zone 2-22

ALARM-EX

sirens

page 328



zone 2-21-22

ALARM-EX

bells

page 328



zone 2-22

LIGHTING DEVICES

RINO-EX

fluorescent light fixtures
stainless steel

page 330



zone 1-2-21-22

RINO-EX

fluorescent light fixtures
stainless steel

page 332



zone 2-21-22

RINO-EX

oval and round light
fixtures in aluminium alloy

page 334



zone 2-21-22

RINO-EX

LED light fixtures
stainless steel

page 336



zone 2-22

MITO-EX

devices in aluminium alloy

page 338



zone 22



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

Low-voltage straight mobile plugs, standard type EN 60309-1 and EN 60309-2, suitable for use in explosion hazardous areas, as defined by the ATEX Directive 2014/34/EU.

The quality of the materials, the terminals with cage clamps throughout the range, the broad entry cable clamping, the total protection rating, the resistance to impacts and crushing make this range suitable for use in the harshest environments.

The range offers maximum ease of use, with details such as easy cable coupling, the possibility of use in suspension, the absence of screws to fix the grips and ergonomic shapes.

Cable features:

Rated current (A)	Poles	Entry cable diameter (mm)	Cable cross-section range (mm ²)
16	2P+⏏	6.3 - 18	1 - 10
	3P+⏏		
	3P+N+⏏	9 - 23	
32	2P+⏏	9 - 23	1 - 10
	3P+⏏		
	3P+N+⏏	13 - 27	
63	2P+⏏	14 - 36	6 - 25
	3P+⏏		
	3P+N+⏏		

Compliance with standards
Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31

Directive LVD 2014/35/EU
EN 60309-1
EN 60309-2

Atex execution
II 3G 2D
Ex nA IIC T6 Gc
Ex tb IIIC T 90°C Db

Casing material
High-thickness antistatic technopolymer

Surface resistance
<10⁹ Ω
(prevention of electrostatic charge accumulation)

Protection rating (IP according to IEC/EN 60529)
IP66/IP67

Colour
RAL 9005 (black)

Rated current
16A - 32A - 63A

Operating voltage
50V - 500V

Operating frequency
50 - 60Hz

Insulation voltage
500V

Operating temperature
-40°C - +60°C





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



High-performance
straight mobile plugs
50-60Hz **IP66/IP67**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110	Yellow	2P+ $\frac{\text{N}}{\text{PE}}$	4	760124EX	1
	110	Yellow	3P+ $\frac{\text{N}}{\text{PE}}$	4	760134EX	1
	110	Yellow	3P+N+ $\frac{\text{PE}}$	4	760144EX	1
	230	Blue	2P+ $\frac{\text{N}}{\text{PE}}$	6	760126EX	1
	230	Blue	3P+ $\frac{\text{N}}{\text{PE}}$	9	760139EX	1
	230	Blue	3P+N+ $\frac{\text{PE}}$	9	760149EX	1
	400	Red	2P+ $\frac{\text{N}}{\text{PE}}$	9	760129EX	1
	400	Red	3P+ $\frac{\text{N}}{\text{PE}}$	6	760136EX	1
	400	Red	3P+N+ $\frac{\text{PE}}$	6	760146EX	1
	500	Black	3P+ $\frac{\text{N}}{\text{PE}}$	7	760137EX	1
	500	Black	3P+N+ $\frac{\text{PE}}$	7	760147EX	1
32	110	Yellow	2P+ $\frac{\text{N}}{\text{PE}}$	4	760224EX	1
	110	Yellow	3P+ $\frac{\text{N}}{\text{PE}}$	4	760234EX	1
	110	Yellow	3P+N+ $\frac{\text{PE}}$	4	760244EX	1
	230	Blue	2P+ $\frac{\text{N}}{\text{PE}}$	6	760226EX	1
	230	Blue	3P+ $\frac{\text{N}}{\text{PE}}$	9	760239EX	1
	230	Blue	3P+N+ $\frac{\text{PE}}$	9	760249EX	1
	400	Red	2P+ $\frac{\text{N}}{\text{PE}}$	9	760229EX	1
	400	Red	3P+ $\frac{\text{N}}{\text{PE}}$	6	760236EX	1
	400	Red	3P+N+ $\frac{\text{PE}}$	6	760246EX	1
	500	Black	3P+ $\frac{\text{N}}{\text{PE}}$	7	760237EX	1
	500	Black	3P+N+ $\frac{\text{PE}}$	7	760247EX	1
63	110	Yellow	2P+ $\frac{\text{N}}{\text{PE}}$	4	760324EX	1
	110	Yellow	3P+ $\frac{\text{N}}{\text{PE}}$	4	760334EX	1
	110	Yellow	3P+N+ $\frac{\text{PE}}$	4	760344EX	1
	230	Blue	2P+ $\frac{\text{N}}{\text{PE}}$	6	760326EX	1
	230	Blue	3P+ $\frac{\text{N}}{\text{PE}}$	9	760339EX	1
	230	Blue	3P+N+ $\frac{\text{PE}}$	9	760349EX	1
	400	Red	2P+ $\frac{\text{N}}{\text{PE}}$	9	760329EX	1
	400	Red	3P+ $\frac{\text{N}}{\text{PE}}$	6	760336EX	1
	400	Red	3P+N+ $\frac{\text{PE}}$	6	760346EX	1
	500	Black	3P+ $\frac{\text{N}}{\text{PE}}$	7	760337EX	1
	500	Black	3P+N+ $\frac{\text{PE}}$	7	760347EX	1



Watertight caps
for plugs
IP66/IP67

Rated current (A)	Poles	Palazzoli code	Pack Qty
16A	2P+ $\frac{\text{N}}{\text{PE}}$	476903EX	1
	3P+ $\frac{\text{N}}{\text{PE}}$	476913EX	1
	3P+N+ $\frac{\text{PE}}$	476923EX	1
32A	2P+ $\frac{\text{N}}{\text{PE}}$ / 3P+ $\frac{\text{N}}{\text{PE}}$	476905EX	1
	3P+N+ $\frac{\text{PE}}$	476925EX	1
63A	2P+ $\frac{\text{N}}{\text{PE}}$ / 3P+ $\frac{\text{N}}{\text{PE}}$ / 3P+N+ $\frac{\text{PE}}$	476907EX	1
125A	2P+ $\frac{\text{N}}{\text{PE}}$ / 3P+ $\frac{\text{N}}{\text{PE}}$ / 3P+N+ $\frac{\text{PE}}$	476909EX	1

Features: ensures the IP67 protection rating when the plug is not in use.



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

Watertight wall-mounted interlocked socket-outlets with housing in Palazzoli antistatic thermosetting GRP for use in explosion hazardous areas, as defined in the ATEX Directive 2014/34/EU.

The cover is attached to the body by means of stainless steel screws, while the sealing is ensured by a reinforced gasket in non-ageing elastomer which ensures an IP66 protection rating.

The interlock mechanism is made of metal, and the operation handle is category AC23A-AC3 at rated current with conditional short-circuit current $\geq 10\text{kA}$.

Rated operating current:			16A	20A 32A	40A 63A
Thermal current Ith		A	16	32	63
AC21A	415V	A	16	32	63
	500V				
AC22A	415V	A	16	32	63
	500V				
AC23A	230V	A	16	32	63
	400V				
	500V				
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

Wiring data:			16A	20A 32A	40A 63A
Entry cable diameter	mm		12 - 18	16 - 25	22 - 32
Entry cable sections	mm ²		1 - 10		6 - 16
Tightening torque	Nm		2		

Compliance with standards
Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31

Directive LVD 2014/35/EU
EN 60309-1
EN 60309-2
EN 60309-4

Atex execution
II 3G 2D
(sockets)
Ex nR IIC T5/T6 Gc
Ex tb IIIC T 80°C...140 °C Db
(table on page 301)
(boxes)
Ex nR IIC Gc
Ex tb IIIC Db

Casing material
Palazzoli antistatic thermosetting GRP

Surface resistance
<10⁹ Ω
(prevention of electrostatic charge accumulation)

Protection rating
(IP according to IEC/EN 60529)
IP66

Colour
RAL 9005 (black)

Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)
960°C

Flammability rating
(according to UL94)
V0

Rated current
16A - 32A - 63A

Operating Voltage
50V - 500V

Operating frequency
50 - 60Hz

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

Insulation voltage
500V

Insulation class
II

Operating temperature
-40°C - +65°C
-40°C ÷ +40°C sockets with fuses and MCB
(table on page 301)



TABLE OF AMBIENT TEMPERATURES
AND ATEX MARKINGS

Version	In	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature	
DUST						
Direct	16A	-40°C+50°C	-	T90°C	-	
		-40°C+65°C		T105°C	95°C	
	32A	-40°C+50°C		T110°C	-	
		-40°C+65°C		T125°C	95°C	
	63A	-40°C+50°C		T125°C	-	
		-40°C+65°C		T140°C	95°C	
Fuse	16A	-40°C - +40°C		T80°C	-	
	32A			T100°C	-	
	63A			T115°C	105°C	
MCB	16A			T80°C	-	
	32A			T100°C	-	
	63A			T115°C	105°C	
GAS						
Direct	16A		-40°C+50°C	T6	-	-
			-40°C+65°C	T5		95°C
	32A	-40°C+50°C	T6	-		
		-40°C+65°C	T5	95°C		
	63A	-40°C+50°C	T6	-		
		-40°C+65°C	T5	95°C		
Fuse	16A	-40°C - +40°C	T6	-		
	20A					
	40A					
MCB	16A					
	32A					
	40A					

TABLE OF THE MAXIMUM DISSIPATED POWER
OF THE BOXES FOR SETS OF SOCKETS

Palazzoli code	-40 - +40°C (W)	-40 - +50°C (W)	-40 - +65°C (W)
DUST			
532240EX	18	12	6
532242EX	23	22	11
532244EX	25	25	23
GAS			
532240EX	8	8	6
532242EX	8	7	7
532244EX	9	8	8

Boxes on page 304

TABLE FOR THE SELECTION OF PLUGS THAT CAN
BE COMBINED WITH THE SOCKETS FOR ZONE 2

Rated current			
Socket-outlet with fuses	Socket-outlet with MCB	Socket-outlet without protection	Plug
16A	16A	16A	16A
20A	32A	32A	32A
40A	40A	63A	63A

SUITABLE FOR ZONES 21-22 (DUST)

MODULE 125



Modular interlocked socket-outlets
in thermosetting GRP
for wall-mounting
50-60Hz IP66

	Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110	110	Yellow	2P+⊕	4	467124EX	1
	110	110	Yellow	3P+⊕	4	467134EX	1
	110	110	Yellow	3P+N+⊕	4	467144EX	1
	230	230	Blue	2P+⊕	6	467126EX	1
	230	230	Blue	3P+⊕	9	467139EX	1
	230	230	Blue	3P+N+⊕	9	467149EX	1
	400	400	Red	2P+⊕	9	467129EX	1
	400	400	Red	3P+⊕	6	467136EX	1
	400	400	Red	3P+N+⊕	6	467146EX	1
	500	500	Black	3P+⊕	7	467137EX	1
	500	500	Black	3P+N+⊕	7	467147EX	1
	500	500	Black	3P+N+⊕	7	467147EX	1
32	110	110	Yellow	2P+⊕	4	470224EX	1
	110	110	Yellow	3P+⊕	4	470234EX	1
	110	110	Yellow	3P+N+⊕	4	470244EX	1
	230	230	Blue	2P+⊕	6	470226EX	1
	230	230	Blue	3P+⊕	9	470239EX	1
	230	230	Blue	3P+N+⊕	9	470249EX	1
	400	400	Red	2P+⊕	9	470229EX	1
	400	400	Red	3P+⊕	6	470236EX	1
	400	400	Red	3P+N+⊕	6	470246EX	1
	500	500	Black	3P+⊕	7	470237EX	1
	500	500	Black	3P+N+⊕	7	470247EX	1
	500	500	Black	3P+N+⊕	7	470247EX	1
63	110	110	Yellow	2P+⊕	4	470324EX	1
	110	110	Yellow	3P+⊕	4	470334EX	1
	110	110	Yellow	3P+N+⊕	4	470344EX	1
	230	230	Blue	2P+⊕	6	470326EX	1
	230	230	Blue	3P+⊕	9	470339EX	1
	230	230	Blue	3P+N+⊕	9	470349EX	1
	400	400	Red	2P+⊕	9	470329EX	1
	400	400	Red	3P+⊕	6	470336EX	1
	400	400	Red	3P+N+⊕	6	470346EX	1
	500	500	Black	3P+⊕	7	470337EX	1
	500	500	Black	3P+N+⊕	7	470347EX	1
	500	500	Black	3P+N+⊕	7	470347EX	1

Equipment included: cable gland in technopolymer.

Technical accessories:



page 304



page 304



SUITABLE FOR ZONE 21-22 (DUST)

MODULE 125



Modular interlocked socket-outlets
in thermosetting GRP
with **fuse holder base**
for wall-mounting
50-60Hz **IP66**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry fuses 10.3x38	110	Yellow	2P+⊕	4	463124EX	1
	110	Yellow	3P+⊕	4	463134EX	1
	110	Yellow	3P+N+⊕	4	463144EX	1
	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
	500	Black	3P+⊕	7	463137EX	1
	500	Black	3P+N+⊕	7	463147EX	1
	110	Yellow	2P+⊕	4	472611EX	1
	110	Yellow	3P+⊕	4	472711EX	1
	110	Yellow	3P+N+⊕	4	472811EX	1
	230	Blue	2P+⊕	6	472621EX	1
32 M32 entry fuses 14x51	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
	110	Yellow	2P+⊕	4	472612EX	1
	110	Yellow	3P+⊕	4	472712EX	1
	110	Yellow	3P+N+⊕	4	472812EX	1
63 M40 entry fuses E33 DIII	230	Blue	2P+⊕	6	472622EX	1
	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: cable gland in technopolymer.

Features: fuses not included. Codes 472612EX, 472622EX, 472632EX have a cable gland with entry diameter of 16-26 mm.

Technical accessories:



MODULE 125



Modular interlocked socket-outlets
in thermosetting GRP
with **MCB** for wall-mounting
50-60Hz **IP66**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry switch 4.5 kA curve C	110	Yellow	2P+⊕	4	464210EX	1
	110	Yellow	3P+⊕	4	464310EX	1
	110	Yellow	3P+N+⊕	4	464410EX	1
	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
	110	Yellow	3P+⊕	4	464711EX	1
32 M32 entry switch 6kA curve C	110	Yellow	3P+N+⊕	4	464811EX	1
	230	Blue	2P+⊕	6	464621EX	1
	230	Blue	3P+⊕	9	464721EX	1
	400	Red	3P+⊕	6	464731EX	1
	400	Red	3P+N+⊕	6	464831EX	1
63 M40 entry switch 10kA curve C	230	Blue	3P+⊕	9	464722EX	1
	400	Red	3P+⊕	6	464732EX	1
	400	Red	3P+N+⊕	6	464832EX	1

Equipment included: cable gland in technopolymer.

Features: voltage presence indicator light.

Code 464722EX has a cable gland with an entry diameter of 16-26 mm.

Technical accessories:



Software for the design and cost estimation of distribution boards

For any application need you can create your own distribution boards online with TAIS-EX sockets for use in explosion hazardous areas



The Tais-EX software
is active on
www.palazzoli.com



SUITABLE FOR ZONE 2 (GAS)

MODULE 125



**Modular interlocked
socket-outlets**
in thermosetting GRP
for wall-mounting
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110	Yellow	2P+⊕	4	467124EX	1
	110	Yellow	3P+⊕	4	467134EX	1
	110	Yellow	3P+N+⊕	4	467144EX	1
	230	Blue	2P+⊕	6	467126EX	1
	230	Blue	3P+⊕	9	467139EX	1
	230	Blue	3P+N+⊕	9	467149EX	1
	400	Red	2P+⊕	9	467129EX	1
	400	Red	3P+⊕	6	467136EX	1
	400	Red	3P+N+⊕	6	467146EX	1
	500	Black	3P+⊕	7	467137EX	1
	500	Black	3P+N+⊕	7	467147EX	1
	110	Yellow	2P+⊕	4	470224EX	1
	110	Yellow	3P+⊕	4	470234EX	1
	110	Yellow	3P+N+⊕	4	470244EX	1
	230	Blue	2P+⊕	6	470226EX	1
	230	Blue	3P+⊕	9	470239EX	1
32 M32 entry	230	Blue	3P+N+⊕	9	470249EX	1
	400	Red	2P+⊕	9	470229EX	1
	400	Red	3P+⊕	6	470236EX	1
	400	Red	3P+N+⊕	6	470246EX	1
	500	Black	3P+⊕	7	470237EX	1
	500	Black	3P+N+⊕	7	470247EX	1
	110	Yellow	2P+⊕	4	470324EX	1
	110	Yellow	3P+⊕	4	470334EX	1
63 M40 entry	110	Yellow	3P+N+⊕	4	470344EX	1
	230	Blue	2P+⊕	6	470326EX	1
	230	Blue	3P+⊕	9	470339EX	1
	230	Blue	3P+N+⊕	9	470349EX	1
	400	Red	2P+⊕	9	470329EX	1
	400	Red	3P+⊕	6	470336EX	1
	400	Red	3P+N+⊕	6	470346EX	1
	500	Black	3P+⊕	7	470337EX	1
	500	Black	3P+N+⊕	7	470347EX	1

Equipment included: cable gland in technopolymer.

Notes: the 63A socket-outlets installed side by side in combination can be used only up to 50A.

Technical accessories:



MODULE 125



**Modular interlocked
socket-outlets**
in thermosetting GRP
with **fuse holder base**
for wall-mounting
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry fuses 10.3x38	110	Yellow	2P+⊕	4	463124EX	1
	110	Yellow	3P+⊕	4	463134EX	1
	110	Yellow	3P+N+⊕	4	463144EX	1
	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
	500	Black	3P+⊕	7	463137EX	1
	500	Black	3P+N+⊕	7	463147EX	1
	110	Yellow	2P+⊕	4	472611EX	1
	110	Yellow	3P+⊕	4	472711EX	1
	110	Yellow	3P+N+⊕	4	472811EX	1
	230	Blue	2P+⊕	6	472621EX	1
	230	Blue	3P+⊕	9	472721EX	1
20 M32 entry fuses 14x51	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
	110	Yellow	2P+⊕	4	463324EX	1
	110	Yellow	3P+⊕	4	463334EX	1
40 M32 entry fuses 14x51	110	Yellow	3P+N+⊕	4	463344EX	1
	230	Blue	2P+⊕	6	463326EX	1
	230	Blue	3P+⊕	9	463339EX	1
	230	Blue	3P+N+⊕	9	463349EX	1
	400	Red	2P+⊕	9	463329EX	1
	400	Red	3P+⊕	6	463336EX	1
	400	Red	3P+N+⊕	6	463346EX	1
	500	Black	3P+⊕	7	463337EX	1
	500	Black	3P+N+⊕	7	463347EX	1

Equipment included: cable gland in technopolymer.

Features: fuses not included.

Technical accessories:

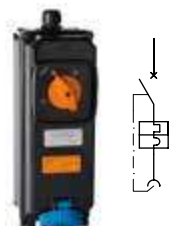




SUITABLE FOR ZONE 2 (GAS)

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

MODULE 125



Modular interlocked socket-outlets in thermosetting GRP with **MCB** for wall-mounting 50-60Hz **IP66**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry switch 4.5 kA curve C	110	Yellow	2P+ $\overline{\text{N}}$	4	464210EX	1
	110	Yellow	3P+ $\overline{\text{N}}$	4	464310EX	1
	110	Yellow	3P+N+ $\overline{\text{N}}$	4	464410EX	1
	230	Blue	2P+ $\overline{\text{N}}$	6	464220EX	1
	230	Blue	3P+ $\overline{\text{N}}$	9	464320EX	1
	230	Blue	3P+N+ $\overline{\text{N}}$	9	464420EX	1
	400	Red	2P+ $\overline{\text{N}}$	9	464230EX	1
	400	Red	3P+ $\overline{\text{N}}$	6	464330EX	1
	400	Red	3P+N+ $\overline{\text{N}}$	6	464430EX	1
	400	Red	3P+N+ $\overline{\text{N}}$	6	464430EX	1
32 M32 entry switch 6 kA curve C	110	Yellow	3P+ $\overline{\text{N}}$	4	464711EX	1
	110	Yellow	3P+N+ $\overline{\text{N}}$	4	464811EX	1
	230	Blue	2P+ $\overline{\text{N}}$	6	464621EX	1
	230	Blue	3P+ $\overline{\text{N}}$	9	464721EX	1
	400	Red	3P+ $\overline{\text{N}}$	6	464731EX	1
40 M32 entry switch 10kA curve C	400	Red	3P+N+ $\overline{\text{N}}$	6	464831EX	1
	230	Blue	3P+ $\overline{\text{N}}$	9	464339EX	1
	400	Red	3P+ $\overline{\text{N}}$	6	464336EX	1
	400	Red	3P+N+ $\overline{\text{N}}$	6	464346EX	1

Equipment included: cable gland in technopolymer.

Features: voltage presence indicator light.



Device for testing the **restricted breathing** of the sockets

Socket rated current	No. of poles	Palazzoli code	Pack Qty
16A	2P+ $\overline{\text{N}}$	478126	1
	3P+ $\overline{\text{N}}$	478136	1
	3P+N+ $\overline{\text{N}}$	478146	1
20A/32A	2P+ $\overline{\text{N}}$ /3P+ $\overline{\text{N}}$	478206	1
	3P+N+ $\overline{\text{N}}$	478246	1
40A/63A	2P+ $\overline{\text{N}}$ /3P+ $\overline{\text{N}}$ /3P+N+ $\overline{\text{N}}$	478306	1

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

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



Boxes in thermosetting GRP with blind cover for the creation of multiple socket boards **IP66**

Outer dimensions (mm)	Power dissipation Ta = +40°C* (W)		No. of installable devices	Palazzoli code	Pack Qty
	Gas	Dust			
125x185x125	8	18	1	532240EX	1
250x185x125	8	23	2	532242EX	1
380x185x125	9	25	3	532244EX	1

Features: supplied with drilling template. The protection rating and the consequent certification of the distribution board are guaranteed if the holes in the boxes are made with the special set of hole cutters of the TAIS series, code 538410 according to the instructions provided with the product.

*For Ta values >40°C see the table on page 301.



Mounting plates in thermosetting GRP with guided system for the creation of multiple socket boards

Outer dimensions (mm)	No. of installable devices	Palazzoli code	Pack Qty
125x630	1	538800	1
250x630	2	538802	1
380x630	3	538804	1

Equipment included: pre-arranged with brass grub screws and stainless steel screws for fastening devices.

Features: the guided positioning system simplifies the assembly of the devices onto the plate.



Fittings for coupling sockets with boxes **IP66**

From hole	To hole	Palazzoli code	Pack Qty
M25	M25	538421EX	1
M32	M32	538429EX	1
M40	M40	538436EX	1

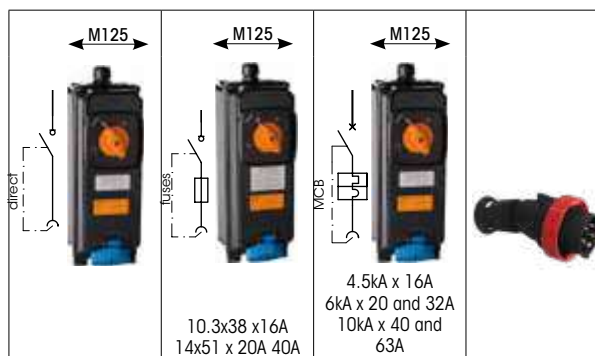
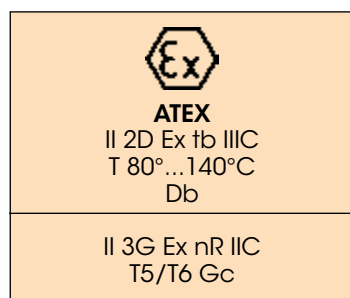
Features: they are required to couple sockets with boxes.



Set of hole cutters cup shaped in steel for quick drill connection tungsten carbide teeth specific for thermosetting GRP

Hole type	Diameter (mm)	Palazzoli code	Pack Qty
M20 - M25 - M32 - M40	20.5 - 25.5 - 32.5 - 40.5	538410	1

GUIDE TO THE CREATION OF COMPOSITIONS WITH TAIS-EX SOCKETS



**TUV CERTIFICATES
WIRED BY THE INSTALLER**

Dusts zone 21 - 22



1 socket 2 sockets

DUST ZONE 21-22

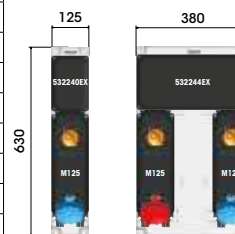
16A	230V	2P+⚡	M25		467126EX	463126EX	464220EX	760126EX
	400V	3P+⚡	M25		467136EX	463136EX	464330EX	760136EX
	400V	3P+N+⚡	M25		467146EX	463146EX	464430EX	760146EX
32A	230V	2P+⚡	M32		470226EX	472621EX	464621EX	760226EX
	400V	3P+⚡	M32		470236EX	472731EX	464731EX	760236EX
	400V	3P+N+⚡	M32		470246EX	472831EX	464831EX	760246EX
63A	400V	3P+⚡	M40		470336EX	472732EX	464732EX	760336EX
	400V	3P+N+⚡	M40		470346EX	472832EX	464832EX	760346EX

Common equipment for dust and gas: cable gland in technopolymer

GAS ZONE 2

16A	230V	2P+⚡	M25	🟦	467126EX	463126EX	464220EX	760126EX
	400V	3P+⚡	M25	🟥	467136EX	463136EX	464330EX	760136EX
	400V	3P+N+⚡	M25	🟥	467146EX	463146EX	464430EX	760146EX
20A	230V	2P+⚡	M32	🟦		472621EX		760226EX
	400V	3P+⚡	M32	🟥		472731EX		760236EX
	400V	3P+N+⚡	M32	🟥		472831EX		760246EX
32A	230V	2P+⚡	M40	🟦	470226EX		464621EX	760226EX
	400V	3P+⚡	M40	🟥	470236EX		464731EX	760236EX
	400V	3P+N+⚡	M40	🟥	470246EX		464831EX	760246EX
40A	400V	3P+⚡	M40	🟥		463336EX	464336EX	760336EX
	400V	3P+N+⚡	M40	🟥		463346EX	464346EX	760346EX
63A	400V	3P+⚡	M40	🟥	470336EX			760336EX
	400V	3P+N+⚡	M40	🟥	470346EX			760346EX

Gas Zone 2
32A to 63A



538800	538804
1 socket	2 sockets

COMMON ACCESSORIES



Fitting

538421EX	M25
538429EX	M32
538436EX	M40



Box

532240EX	125x185 x 1 socket
532242EX	250x185 x 2 sockets
532244EX*	380x185 x 2 sockets



Plate

538800	125x360 x 1 socket
538802	250x630 x 2 sockets
538804*	380x630 x 2 sockets

* For 3 sockets only certified and wired by Palazzoli



ALUPRES-EX series

Interlocked socket-outlets in aluminium alloy

ATEX
solutions for
explosive atmospheres

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

Wall-mounted interlocked socket-outlets in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/UE.

Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised scratch-resistant, non-ageing, non-toxic polyester painting. The colour of the socket is RAL 9005 black. The interlock mechanism is made of metal, and the switch is an AC23A-AC3 class switch at rated current with conditional short-circuit current $\geq 10\text{kA}$. 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 cable gland in thermoplastic material.

Rated operating current:		16A	32A	40A 63A
Thermal current I _{th}	A	16	32	63
AC21A	415V	A	16	32
	500V			
AC22A	415V	A	16	32
	500V			
AC23A	230V	A	16	32
	400V			
	500V			
AC23A	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17
AC3	230V	kW	4.5	8.5
	400V		7.5	15
	500V		8.5	17

Wiring data:		16A	32A	40A 63A
Entry cable diameter	mm	12 - 18	16 - 25	
Entry cable sections	mm ²	1 - 10		6 - 16
Tightening torque	Nm	2		

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31

Directive LVD 2014/35/EU
EN 60309-1
EN 60309-2
EN 60309-4

II 3G 2D

Atex execution

(sockets)
Ex nR IIC T6 Gc
Ex tb IIIC T 65°C...85 °C Db
(Table on page 307)

(boxes)
Ex nR IIC Gc
Ex tb IIIC Db

Material Aluminium alloy

Surface treatment Passivation with fluoro-zirconium treatment

Paint Hot polymerised non-toxic, non-ageing polyester

Colour RAL 9005 (black)

Protection rating (IP according to IEC/EN 60529) IP66

Rated current 16A - 32A - 63A

Operating Voltage 50V - 500V

Operating frequency 50-60Hz

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

Insulation voltage 500V

Insulation class I

Operating temperature -40°C - +65°C
-40°C - +40°C sockets with fuses
(Table on page 307)



TABLE OF AMBIENT TEMPERATURES
AND ATEX MARKINGS

Version	In	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature	
DUST						
Direct	16A	-40°C - +60°C	-	T70°C	-	
		-40°C+65°C		T75°C	85°C	
	32A	-40°C+50°C		T70°C	-	
		-40°C+65°C		T85°C	95°C	
	63A	-40°C - +45°C		T70°C	-	
		-40°C - +55°C		T80°C	90°C	
Fuse	16A	-40°C - +40°C		T65°C	-	
	32A			T75°C		
	63A			T80°C	105°C	
GAS						
Direct	16A	-40°C - +60°C	T6	-	-	
		-40°C+65°C			85°C	
	32A	-40°C+50°C			-	
		-40°C+65°C			95°C	
	63A	-40°C - +45°C			-	
		-40°C - +55°C			90°C	
Fuse	16A	-40°C - +40°C				-
	20A					
	40A					

TABLE OF THE MAX. POWER DISSIPATION
ALLOWED FOR SOCKET BOARD BOXES

Palazzoli code	-40 - +40°C (W)	-40 - +45°C (W)	-40 - +50°C (W)	-40 - +55°C (W)	-40 da +60°C (W)	-40 - +65°C (W)
DUST						
511914EX	20	17	13	10	7	3
511919EX	42	35	28	21	14	7
GAS						
511914EX	13	13	13	10	7	3
511919EX	25	24	24	21	14	7

Boxes on page 309

TABLE FOR THE SELECTION OF PLUGS THAT CAN
BE COMBINED WITH THE SOCKETS FOR ZONE 2

Rated current		
Socket with fuses	Socket-outlet without protection	Plug
16A	16A	16A
32A	32A	32A
40A	63A	63A

SUITABLE FOR ZONE 21-22 (DUST)

MODULE 125



Modular interlocked socket-outlets
in aluminium alloy
for wall-mounting
50-60Hz IP66

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16	110	Yellow	2P+⊕	4	466124EX	1
	110	Yellow	3P+⊕	4	466134EX	1
	110	Yellow	3P+N+⊕	4	466144EX	1
	230	Blue	2P+⊕	6	466126EX	1
	230	Blue	3P+⊕	9	466139EX	1
	230	Blue	3P+N+⊕	9	466149EX	1
	400	Red	2P+⊕	9	466129EX	1
	400	Red	3P+⊕	6	466136EX	1
	400	Red	3P+N+⊕	6	466146EX	1
	500	Black	3P+⊕	7	466137EX	1
	500	Black	3P+N+⊕	7	466147EX	1
	500	Black	3P+N+⊕	7	466147EX	1
32	110	Yellow	2P+⊕	4	460224EX	1
	110	Yellow	3P+⊕	4	460234EX	1
	110	Yellow	3P+N+⊕	4	460244EX	1
	230	Blue	2P+⊕	6	460226EX	1
	230	Blue	3P+⊕	9	460239EX	1
	230	Blue	3P+N+⊕	9	460249EX	1
	400	Red	2P+⊕	9	460229EX	1
	400	Red	3P+⊕	6	460236EX	1
	400	Red	3P+N+⊕	6	460246EX	1
	500	Black	3P+⊕	7	460237EX	1
	500	Black	3P+N+⊕	7	460247EX	1
	500	Black	3P+N+⊕	7	460247EX	1
63	110	Yellow	2P+⊕	4	460324EX	1
	110	Yellow	3P+⊕	4	460334EX	1
	110	Yellow	3P+N+⊕	4	460344EX	1
	230	Blue	2P+⊕	6	460326EX	1
	230	Blue	3P+⊕	9	460339EX	1
	230	Blue	3P+N+⊕	9	460349EX	1
	400	Red	2P+⊕	9	460329EX	1
	400	Red	3P+⊕	6	460336EX	1
	400	Red	3P+N+⊕	6	460346EX	1
	500	Black	3P+⊕	7	460337EX	1
	500	Black	3P+N+⊕	7	460347EX	1
	500	Black	3P+N+⊕	7	460347EX	1

Equipment included: flange F1 with technopolymer cable gland on the upper side.
Steel blind flange on bottom side.

Technical accessories:





ALUPRES-EX series

Interlocked socket-outlets in aluminium alloy

ATEX
solutions for
explosive atmospheres

SUITABLE FOR ZONE 21-22 (DUST)

SUITABLE FOR ZONES 2 (GAS)

MODULE 125



**Modular interlocked
socket-outlets**
in aluminium alloy
with **fuse-holder base**
for wall-mounting
50-60Hz **IP66**

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

Equipment included: flange F1 with technopolymer cable gland on the upper side.
Steel blind flange on bottom side.

Features: fuses not included.

Technical accessories:



MODULE 125



**Modular interlocked
socket-outlets**
in aluminium alloy
for wall-mounting
50-60Hz **IP66**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry	110	Yellow	2P+⊕	4	466124EX	1
	110	Yellow	3P+⊕	4	466134EX	1
	110	Yellow	3P+N+⊕	4	466144EX	1
	230	Blue	2P+⊕	6	466126EX	1
	230	Blue	3P+⊕	9	466139EX	1
	230	Blue	3P+N+⊕	9	466149EX	1
	400	Red	2P+⊕	9	466129EX	1
	400	Red	3P+⊕	6	466136EX	1
	400	Red	3P+N+⊕	6	466146EX	1
	500	Black	3P+⊕	7	466137EX	1
32 M32 entry	110	Yellow	2P+⊕	4	460224EX	1
	110	Yellow	3P+⊕	4	460234EX	1
	110	Yellow	3P+N+⊕	4	460244EX	1
	230	Blue	2P+⊕	6	460226EX	1
	230	Blue	3P+⊕	9	460239EX	1
	230	Blue	3P+N+⊕	9	460249EX	1
	400	Red	2P+⊕	9	460229EX	1
	400	Red	3P+⊕	6	460236EX	1
	400	Red	3P+N+⊕	6	460246EX	1
	500	Black	3P+⊕	7	460237EX	1
63 M32 entry	110	Yellow	2P+⊕	4	460324EX	1
	110	Yellow	3P+⊕	4	460334EX	1
	110	Yellow	3P+N+⊕	4	460344EX	1
	230	Blue	2P+⊕	6	460326EX	1
	230	Blue	3P+⊕	9	460339EX	1
	230	Blue	3P+N+⊕	9	460349EX	1
	400	Red	2P+⊕	9	460329EX	1
	400	Red	3P+⊕	6	460336EX	1
	400	Red	3P+N+⊕	6	460346EX	1
	500	Black	3P+⊕	7	460337EX	1
	500	Black	3P+N+⊕	7	460347EX	1

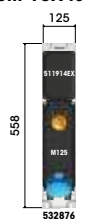
Equipment included: flange F1 with technopolymer cable gland on the upper side.
Steel blind flange on bottom side.

Technical accessories:



EX-AGENCIA CERTIFIED AND WIRED BY THE INSTALLER

**Dusts Zone 21 - 22
Gas Zone 2
from 16A to 63A**



1 socket

**Dusts Zone 21 - 22
from 16A-32A**



2 sockets

**Gas Zone 2
from 16A-25A**



2 sockets

**Dusts Zone 21 - 22
Gas Zone 2
from 16A to 63A**



2 sockets



ALUPRES-EX series

Interlocked socket-outlets in aluminium alloy

ATEX
solutions for
explosive atmospheres

SUITABLE FOR ZONES 2 (GAS)

Suitable for ZONE 2 (GAS) and 21-22 (DUST)

MODULE 125



Modular interlocked socket-outlets
in aluminium alloy
with **fuse-holder base**
for wall-mounting
50-60Hz **IP66**

Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M25 entry fuses 10.3x38	110	Yellow	2P+⊕	4	465124EX	1
	110	Yellow	3P+⊕	4	465134EX	1
	110	Yellow	3P+N+⊕	4	465144EX	1
	230	Blue	2P+⊕	6	465126EX	1
	230	Blue	3P+⊕	9	465139EX	1
	230	Blue	3P+N+⊕	9	465149EX	1
	400	Red	2P+⊕	9	465129EX	1
	400	Red	3P+⊕	6	465136EX	1
	400	Red	3P+N+⊕	6	465146EX	1
	500	Black	3P+⊕	7	465137EX	1
	500	Black	3P+N+⊕	7	465147EX	1
32 M32 entry fuses 14x51	110	Yellow	2P+⊕	4	472236EX	1
	110	Yellow	3P+⊕	4	472246EX	1
	110	Yellow	3P+N+⊕	4	472256EX	1
	230	Blue	2P+⊕	6	472336EX	1
	230	Blue	3P+⊕	9	472346EX	1
	230	Blue	3P+N+⊕	9	472356EX	1
	400	Red	2P+⊕	9	472436EX	1
	400	Red	3P+⊕	6	472446EX	1
	400	Red	3P+N+⊕	6	472456EX	1
	500	Black	3P+⊕	7	472546EX	1
	500	Black	3P+N+⊕	7	472556EX	1
40 M32 entry fuses 14x51	110	Yellow	2P+⊕	4	465324EX	1
	110	Yellow	3P+⊕	4	465334EX	1
	110	Yellow	3P+N+⊕	4	465344EX	1
	230	Blue	2P+⊕	6	465326EX	1
	230	Blue	3P+⊕	9	465339EX	1
	230	Blue	3P+N+⊕	9	465349EX	1
	400	Red	2P+⊕	9	465329EX	1
	400	Red	3P+⊕	6	465336EX	1
	400	Red	3P+N+⊕	6	465346EX	1
	500	Black	3P+⊕	7	465337EX	1
	500	Black	3P+N+⊕	7	465347EX	1

Equipment included: flange F1 with technopolymer cable gland on the upper side.
Steel blind flange on bottom side.

Features: fuses not included.

Notes: 2 32A sockets side by side in combination can be used only up to 25A.



Device for testing the
restricted breathing
of the sockets

Socket rated current	No. of poles	Palazzoli code	Pack Qty
16A	2P+⊕	478126	1
	3P+⊕	478136	1
	3P+N+⊕	478146	1
20A/32A	2P+⊕/3P+⊕	478206	1
	3P+N+⊕	478246	1
40A/63A	2P+⊕/3P+⊕/3P+N+⊕	478306	1

Equipment included: transparent tube to be applied to 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.



Boxes in aluminium alloy
with blind cover
for composition
of socket boards
IP66

Outer dimensions (mm)	Power dissipation Ta = +40°C* (W)		Window type	Palazzoli code	Pack Qty
	Gas	Dust			
125x125	13	20	F1	511914EX	1
252x125	25	42	F2	511919EX	1

Equipment included: the code 511919Ex is equipped with windowed flange and M32 cable gland.

Back plate in galvanised steel.

Screws for internal and external earth connection.

*For Ta values >40°C see table on page 307.



Mounting plate
in painted steel
for composition
of socket boards

Outer dimensions (mm)	No. of installable devices	Palazzoli code	Pack Qty
125x558	1	532876	1
250x558	2	532836	1



Flanges in aluminium alloy
with metric threading
for windowed boxes
IP67

For windows	Threading type	Projection (mm)	Palazzoli code	Pack Qty
F1	M25	18	541055EX	1
F1	M32	51	540180EX	1
F2	M32	51	540185EX	1
F2	M40	51	540186EX	1

Technical accessories:



page 317



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

Modular watertight boxes in Palazzoli antistatic thermosetting GRP, suitable for use in explosion hazardous areas as provided for in the ATEX Directive ATEX 2014/34/EU.

The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer.

The boxes are prepared for the installation of a DIN EN50022 rail for mounting modular terminal blocks and a back plate in anti-corrosion galvanised-tropicalised steel.

Table of the max. power dissipation allowed for TAIS-EX boxes

Code	-40°C - +40°C (W)	-40°C - +50°C (W)	-40°C - +60°C (W)	-40°C - +70°C (W)	-40°C - +75°C (W)
532200EX	18	12	8	4	2
532201EX	19	17	11	6	3
532202EX	23	22	15	7	4
532203EX	24	22	17	8	4
532204EX	25	25	23	15	8
532035EX*	8	6	4	2	1
532045EX	10	6	4	2	1
532055EX	12	9	6	3	1
532116EX	13	10	7	3	2
532117EX	15	10	7	3	2
532118EX	20	14	9	5	2
532005EX	11	10	7	3	2
532006EX	11	7	4	2	1
532015EX	16	9	6	3	2
532016EX	15	10	7	3	2
532017EX	17	13	8	4	2
532018EX	22	22	15	7	4

*The minimum operating temperature is -20 °C.

Compliance with standards
Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-7
EN 60079-31

Directive ATEX 2014/35/EU
EN 62208

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

Material
Palazzoli antistatic thermosetting GRP

Surface resistance
(prevention of electrostatic charge accumulation)
< 10⁹ Ω

Protection rating
(IP according to IEC/EN 60529)
IP66

Colour
RAL 9005 (black)

Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)
960°C

Flammability rating
(according to UL94)
V0

Insulation class
II

Operating temperature
-40°C - +40°C
-40°C - +50°C
-40°C - +60°C
-40°C - +70°C
-40°C - +75°C
(please consult the table)





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



Junction boxes
in thermosetting GRP
with **high cover**
IP66

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
125x185x125	18	532200EX	1
190x185x125	19	532201EX	1
250x185x125	23	532202EX	1
290x185x125	24	532203EX	1
380x185x125	25	532204EX	1

Notes: the maximum power dissipation is for the maximum ambient temperature of 40°C.



Junction boxes
in thermosetting GRP
with **low cover**
IP66

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
92x92x68	8	532035EX*	1
125x92x68	10	532045EX	1
185x92x68	12	532055EX	1
125x125x100	13	532116EX	1
185x125x100	15	532117EX	1
250x125x100	20	532118EX	1

Notes: the maximum power dissipation is for the maximum ambient temperature of 40°C.
*The minimum operating temperature is -20 °C.



Junction boxes
in thermosetting GRP
with **high cover**
IP66

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
92x92x100	11	532005EX	1
125x92x100	11	532006EX	1
185x92x100	16	532015EX	1
125x125x125	15	532016EX	1
185x125x125	17	532017EX	1
250x125x125	22	532018EX	1

Notes: the maximum power dissipation is for the maximum ambient temperature of 40°C.



Back plates
in galvanised steel
for TAIS boxes

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



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

Hole type	Diameter (mm)	Palazzoli code	Pack Qty
M20 - M25 - M32 - M40	20.5 - 25.5 - 32.5 - 40.5	538410	1



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

Watertight boxes in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/UE.

Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised scratch-resistant, non-ageing, non-toxic polyester painting. The colour of the box is RAL 9005 black.

The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer.

Designed to enable internal and external earthing.

Table of the max. power dissipation allowed for ALUPRES-EX boxes

Code	-40°C - +40°C (W)	-40°C - +50°C (W)	-40°C - +60°C (W)	-40°C - +65°C (W)
511910EX*	10	7	4	2
511913EX	20	13	7	3
150021EX	30	16	8	4
511920EX	40	24	12	6
511921EX	42	28	14	7
511911EX	12	10	5	2
511912EX	23	13	6	3
511917EX	40	23	11	6
511922EX	45	25	13	6
511923EX	65	40	20	10

*The minimum operating temperature is -20 °C.

Compliance with standards
Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-7
EN 60079-31

Directive ATEX 2014/35/EU
EN 62208

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

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium treatment**

Paint **Hot polymerised non-toxic, non-ageing polyester**

Colour **RAL 9005 (black)**

Protection rating (IP according to IEC/EN 60529) **IP66**

Insulation class **I**

Operating temperature
-40°C - +40°C
-40°C - +50°C
-40°C - +60°C
-40°C - +65°C
(please consult the table)





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



Junction boxes
in aluminium alloy
with **blind walls** and back plate
IP66

Outer dimensions (mm)	Max. power dissipation (W)	Palazzoli code	Pack Qty
92x92x77	10	511910EX*	1
125x125x113	20	511913EX	1
155x155x73	30	150021EX	1
185x185x145	40	511920EX	1
252x185x145	42	511921EX	1

Equipment included: earth screws inside and outside the box.

Back plate (except code 511910EX).

Notes: the maximum power dissipation is for the maximum ambient temperature of 40°C.

*The minimum operating temperature is -20 °C.



Flanges in aluminium alloy
with metric threading
for windowed boxes
IP66

For windows	Threading type	Projection (mm)	Palazzoli code	Pack Qty
F0	M25x1.5	18	541050EX	1
F1	M25x1.5	18	541055EX	1
F1	M32x1.5	51	540180EX	1
F3	M40x1.5	51	540190EX	1
F5	M50x1.5	51	540195EX	1

Technical accessories:



page 317



Junction boxes
in aluminium alloy
with **flanged walls**
and back plates
IP66

Outer dimensions (mm)	Max. power dissipation (W)	Window type	Palazzoli code	Pack Qty
125x92x77	12	F0 ↓ F0	511911EX	1
185x92x77	23	F0 ↓ F0	511912EX	1
252x125x113	40	F1 ↓ F1	511917EX	1
220x220x108	45	F3 ↓ F3	511922EX	1
252x252x197	65	F5 ↓ F5	511923EX	1

Equipment included: earth screws inside and outside the box. Blind flat flanges.

Back plate (except codes 511911EX and 511912EX).

Notes: the maximum power dissipation is for the maximum ambient temperature of 40°C.



Closing flanges raised
in aluminium alloy
for windowed boxes
IP66

For windows	Projection (mm)	Palazzoli code	Pack Qty
F1	32	540061EX	1
F3	50	540063EX	1
F5	80	540065EX	1

Technical accessories:



page 317



TAIS-EX thermosetting GRP enclosures and ALUPRES-EX aluminium enclosures can be completed with cable glands and terminals, to create customised terminal enclosures, suitable to be installed in zone 1, 2, 21 and 22, in compliance with the ATEX Directive 2014/34/EU. The configurations customised and certified by a Notified Organism can be made by Palazzoli upon specifications of the customer.

To make the configurations it is necessary to know:

1. Number and type of modular terminal blocks.

The EN50022 rail inside the box can be completed with modular terminal blocks complying with the Atex Directive and certified according to protection mode Ex-e. The maximum number of usable terminals depends on the physical dimensions of the box, according to the table below, and on the maximum power dissipation.

2. Number, type e positions of the cable glands.

Each enclosure can be drilled on the 4 sides using a max. number of entries that depends on the dimensions of the cable glands and on side area. Cable glands from Palazzoli or any other brand, from M12 to M50, may be used. They must comply with the Atex Directive and certified with the Ex-e/Ex-tb protection mode. If windowed boxes are used, it is possible to complete them with suitable perforated flanges or blind raised flanges (Table below).

SERIES	CODE OF EMPTY BOX	DIMENSIONS (BxHxD)	DIN GUIDE 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	-	-
ALUPRES-EX	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	-	-
	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 utilisation current for each terminal.

By specifying this detail it is possible to calculate more precisely the maximum power dissipation and use optimised boxes with more compact dimensions. If this detail cannot be supplied, the maximum rated current should be considered and larger boxes will have to be used.

4. Ambient temperature

Palazzoli's thermosetting GRP boxes of the TAIS-EX series and aluminium alloy boxes of the ALUPRES-EX series can be used at different temperatures. The complete tables are on page 310 for the TAIS-EX series and page 312 for the ALUPRES-EX series. Also in this case, by carefully choosing the temperature range, it is possible to use optimised boxes with more compact dimensions.



REQUEST FORM FOR CUSTOMISED ATEX JUNCTION BOXES

DATA REQUIRED

CODE OF EMPTY PALAZZOLI BOX: _____

QUANTITY TO BE PRODUCED: _____

MAX AMBIENT TEMPERATURE (°C): _____

BRAND OF TERMINAL: _____

(if not expressly indicated, the terminals are the responsibility of Palazzoli)

INTERNAL COMPOSITION	TERMINAL RATED CROSS-SECTION (mm²)						
	2.5	4	6	10	16	25	35
NUMBER OF TERMINALS							
CURRENT PER TERMINAL (A)							

Indicate in the table the number of terminals and the current required for each terminal.

CABLE GLAND MATERIAL: Insulating ☐ Brass ☐

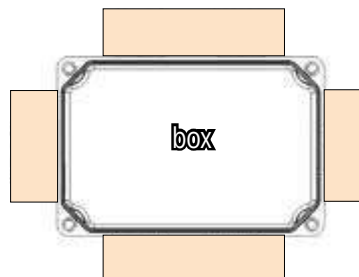
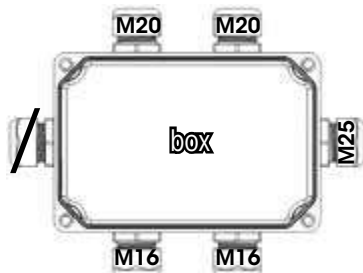
BRAND OF CABLE GLAND: _____

(if not expressly indicated, the cable glands are the responsibility of Palazzoli)

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

Indicate in the table the number of cable glands and their positions on the four sides of the box as in the example below.

Example:



The form must be sent to export@palazzoli.com or by fax to **+39 030 2015.258**.



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

Cable glands in technopolymer and nickel-plated brass with neoprene gaskets.

Galvanised steel adaptors with Pg or Gas male thread and female metric thread to connect devices of different standards.

The products are suitable for use in explosion hazardous areas according to ATEX directive 2014/34/EU.

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-7
EN 60079-31

IEC/EN 60079-0
IEC/EN 60079-1
IEC/EN 60079-7
IEC/EN 60079-31
ISO 965-1
ISO 965-3

Atex execution

II 2G 2D

(cable glands)
Ex e IIC, Ex tb IIIC

(cable glands for armoured cables)
Ex db/eb IIC, Ex tb IIIC

(adaptors)
Ex d IIC, Ex e IIC, Ex tb IIIC

(technopolymer cable glands)
Polyamide body
Neoprene gaskets

(brass cable glands)
Nickel-plated brass body
Neoprene gaskets

(cable glands for armoured cables)
Nickel-plated brass body
Graphite gasket

(adaptors)
Galvanised steel

Colour

Technopolymer cable gland
RAL 9005 (black)

Protection rating

IP66/IP68 (cable glands)
IP66/IP67 (adaptors)

Operating temperature

(technopolymer cable glands)
-20°C - +80°C (M12)
-35°C - +95°C

(brass cable glands)
-40°C - +100°C

(cable glands for armoured cables)
-60°C - +80°C

(adaptors)
-40°C - +150°C





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



Cable glands
in insulating material
with **Pg threading**
IP66/IP68

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
9	16	3.5-8.5	8	571009EX	50
11	19	4-10,5	8	571011EX	50
13.5	21	5-12.5	9	571013EX	50
16	23	6.5-14	10	571016EX	50
21	29	8-18.5	11	571021EX	20
29	38	10-25	12	571029EX	20
36	48	24-34	15	571036EX	10
42	55	34-42	15	571042EX	5
48	61	40-48	15	571048EX	5



Locknuts
in insulating material
with **Pg threading**

Pg	Palazzoli code	Pack Qty
9	571209	50
11	571211	50
13.5	571213	50
16	571216	50
21	571221	25
29	571229	20
36	571236	10
42	571242	5
48	571248	5



Cable glands
in insulating material
with **Pg pitch**
with **long thread**
IP66/IP68

Pg	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
9	16	3.5-5.5	15	571109EX	50
11	19	4-10,5	15	571111EX	50
13.5	21	5-12.5	15	571113EX	50
16	23	6.5-14	15	571116EX	50
21	29	8-18.5	15	571121EX	20
29	38	10-25	15	571129EX	20
36	48	24-34	18	571136EX	10
42	55	34-42	18	571142EX	5
48	61	40-48	18	571148EX	5



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



Cable glands
in insulating material
with **metric threading**
IP66/IP68

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	4-6.5	8	581012EX	50
M16x1.5	16.5	5-10	10	581016EX	50
M20x1.5	20.5	10-14	10	581020EX	50
M25x1.5	25.5	12-18	10	581025EX	20
M32x1,5	32.5	16-25	10	581032EX	20
M40x1.5	40.5	22-32	10	581040EX	20
M50x1.5	50.5	28-38.5	12	581050EX	10
M63x1.5	63.5	40-48	12	581063EX	5



Locknuts
in insulating material
with **metric threading**

Threading	Palazzoli code	Pack Qty
M12x1,5	581212	50
M16x1.5	581216	50
M20x1.5	581220	50
M25x1.5	581225	50
M32x1,5	581232	50
M40x1.5	581240	20
M50x1.5	581250	10
M63x1.5	581263	5



Cable glands
in insulating material
with **metric pitch**
with **long thread**
IP66/IP68

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	4-6.5	15	581112EX	50
M16x1.5	16.5	5-10	15	581116EX	50
M20x1.5	20.5	10-14	15	581120EX	50
M25x1.5	25.5	12-18	15	581125EX	20
M32x1,5	32.5	16-25	15	581132EX	20
M40x1.5	40.5	22-32	16	581140EX	20
M50x1.5	50.5	28-38.5	16	581150EX	10
M63x1.5	63.5	40-48	16	581163EX	5



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



Cable glands
in nickel-plated brass
with **metric threading**
IP66/IP68

Threading	Mounting hole (mm)	Fastening diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	4.5-6.5	15	582112EX	50
M16x1.5	16.5	5-9.5	15	582116EX	50
M20x1.5	20.5	8-13	15	582120EX	50
M25x1.5	25.5	9-16	15	582125EX	20
M32x1,5	32.5	12-21	15	582132EX	20
M40x1.5	40.5	16-27	15	582140EX	20
M50x1.5	50.5	23-35	15	582150EX	10
M63x1.5	63.5	36-48	15	582163EX	5



Gas/metric adaptors
in galvanised steel
for tube/box connections
IP67

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



Cable glands for armoured cables
in nickel-plated brass
with **metric threading**
IP66/IP68

Threading	Mounting hole (mm)	Sheath outer diameter (mm)	Sheath inner diameter (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M16	16.5	7-11.5	4-8	15	580416EX	1
M20	20.5	9-15.5	7-12	15	580420EX	1
M25	25.5	13-20	9.5-15.5	15	580425EX	1
M32	32.5	18-27	14-20.5	15	580432EX	1
M40	40.5	23-33.5	17-27	15	580440EX	1
M50	50.5	29-40.5	22-33.5	15	580450EX	1
M63	63.5	40-54	34-47.5	15	580463EX	1

Notes: earthing tab available on request.



Pg/metric adaptors
in galvanised steel
for tube/box connections
IP67

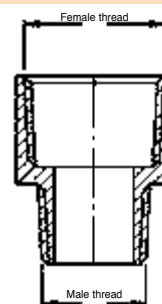
Male thread	Female thread	Palazzoli code	Pack Qty
Pg21	M25x1.5	580394EX	1
Pg29	M32x1,5	580395EX	1
Pg36	M40x1.5	580396EX	1



Locknuts
in nickel-plated brass
with **metric threading**

Threading	Palazzoli code	Pack Qty
M12x1,5	582212	50
M16x1.5	582216	50
M20x1.5	582220	50
M25x1.5	582225	25
M32x1,5	582232	20
M40x1.5	582240	10
M50x1.5	582250	10
M63x1.5	582263	5

SELECTION GUIDE





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

Watertight control devices in Palazzoli antistatic thermosetting GRP suitable for use in explosion hazardous areas as provided for in the ATEX Directive 2014/34/EU.

The cover is attached to the body with stainless steel screws while the sealing is ensured by a gasket in non-ageing elastomer.

Complete with earthing terminal inside the box.

The load is of AC23A-AC3 type with rated current with short-circuit conditional current $\geq 10\text{kA}$.

Mechanical life of over one million operations.

Rated operating current:			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

Wiring data:			16A	25A	40A	63A
Entry cable diameter	mm		12-18		16-25	
Entry cable sections	mm ²		1-10		4-10	6-16
Tightening torque	Nm		2			

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31

Directive LVD 2014/35/EU
EN 60947-3
EN 60947-1

Atex execution

II 3G 2D

Ex nR IIC T5/T6 Gc
Ex tb IIIC T 85 °C Db
(Table on page 321)

Casing material

Palazzoli antistatic thermosetting GRP

Surface resistance

<10⁹ Ω
(prevention of electrostatic charge accumulation)

Protection rating (IP according to IEC/EN 60529)

IP66

Colour

RAL 9005 (black)

Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)

960°C

Flammability rating (according to UL94)

V0

Rated current

16A - 25A - 40A - 63A

Operating voltage

500V

Operating frequency

50-60Hz

Conditional short-circuit current isolator switch

≥ 10kA

Mechanical duration

>1,000,000 operations

Insulation class

II

Operating temperature

-40°C - +65°C
(Table on page 321)





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

TABLE OF AMBIENT TEMPERATURES
AND ATEX MARKINGS

In	Poles	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature
DUST and GAS					
16A	2,3,4	-40°C - +60°C	T6	T85°C	-
		-40°C+65°C			85°C
25A		-40°C - +55°C	T5		-
-40°C+65°C		90°C			
40A		-40°C+50°C	T6		-
		-40°C+65°C	T5		95°C
63A		-40°C - +45°C	T6		-
		-40°C - +60°C			95°C



Isolator switches
in technopolymer
for wall-mounting
50-60Hz IP66



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

Equipment included: cable gland in technopolymer. Earthing terminal inside the box.

Features: designed for restricted breathing testing.

Notes: the padlockable version is available on request.



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

Watertight control devices in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX 2014/34/UE Directive.

Box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised, scratch-resistant, non-ageing, non-toxic polyester paint. The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer. Designed to enable internal and external earthing. The shaft is made of metal, and the switch is of AC23A-AC3 class at rated current with conditional short-circuit current $\geq 10\text{kA}$. Mechanical life of over one million operations.

Rated operating current:		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

Wiring data:		16A	25A	40A	63A
Entry cable diameter	mm	12-18		16-25	
Entry cable sections	mm ²	1-4	1.5-6	4-10	6-16
Tightening torque	Nm	1.5		2	

Compliance with standards
Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31

Directive 2014/35/EU
EN 60947-3
EN 60947-1

Atex execution
II 3G 2D
Ex nR IIC T5/T6 Gc
Ex tb IIIC T 85 °C Db
(Table on page 323)

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium treatment**

Paint **Hot polymerised non-toxic, non-ageing polyester**

Colour **RAL 9005 (black)**

Protection rating (IP according to IEC/EN 60529) **IP66/IP67**

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

Operating voltage **500V**

Operating frequency **50-60Hz**

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

Mechanical duration **>1,000,000 operations**

Insulation class **I**

Operating temperature **-40°C - +65°C**
(Table on page 323)





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

TABLE OF AMBIENT TEMPERATURES
AND ATEX MARKINGS

In	Poles	Ambient temperature	Temperature class	Maximum surface temperature	Cable temperature
DUST and GAS					
16A	2,3,4,6	-40°C - +55°C	T6	T85°C	-
		-40°C +65°C			90°C
25A	2,3,4	-40°C - +45°C			-
		-40°C +65°C			100°C
	6	-40°C - +40°C	-		
		-40°C - +60°C	T5		100°C
40A	2,3,4	-40°C - +55°C	T6		-
		-40°C +65°C			95°C
	6	-40°C +50°C			-
		-40°C +65°C			95°C
63A	3,4,6	-40°C - +40°C			-
		-40°C - +55°C			100°C

Selector switches
in aluminium alloy
for wall-mounting
50-60Hz IP66/IP67

Rated current (A)	Poles	CAM schemes	Enclosure dimensions (mm)	Entry type	Palazzoli code	Pack Qty
16	3	9	125x185	M25 2xM25	272146EX	1
	4	10	125x185	M25 2xM25	272147EX	1
25	3	9	125x185	M25 2xM25	272246EX	1
	4	10	125x185	M25 2xM25	272247EX	1
40	3	9	125x185	M32 2xM32	272306EX	1
	4	10	125x185	M32 2xM32	272307EX	1
63	3	9	125x185	M32 2xM32	282406EX	1
	4	10	252x185	M32 2xM32	282407EX*	1

Equipment included: cable gland in technopolymer. Earthing terminal inside and outside the box.
Features: designed for restricted breathing testing.
Notes: *the protection rating is IP65.

Isolator switches
in aluminium alloy
for wall-mounting
50-60Hz IP66/IP67

Rated current (A)	Poles	CAM schemes	Enclosure dimensions (mm)	Entry type	Palazzoli code	Pack Qty
16	2	2	92x92	M25 M25	272141EX	1
	3	3	92x92	M25 M25	272142EX	1
	4	4	92x92	M25 M25	272143EX	1
	6	6	125x185	2xM25 2xM25	272144EX	1
25	2	2	92x92	M25 M25	272241EX	1
	3	3	92x92	M25 M25	272242EX	1
	4	4	92x92	M25 M25	272243EX	1
	6	6	125x185	2xM25 2xM25	272244EX	1
40	2	2	125x125	M32 M32	272301EX	1
	3	3	125x125	M32 M32	272302EX	1
	4	4	125x125	M32 M32	272303EX	1
	6	6	125x185	2xM32 2xM32	272304EX	1
63	3	3	125x185	M32 M32	282402EX	1
	4	4	125x185	M32 M32	282403EX	1
	6	6	125x185	2xM32 2xM32	282404EX	1

Equipment included: cable glands in technopolymer. Earthing terminal inside and outside the box.
Features: designed for restricted breathing testing.
Notes: the padlockable version is available on request.



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

Small devices and watertight boxes in Palazzoli antistatic thermosetting GRP, suitable for use in explosion hazardous areas as provided for in the ATEX Directive 2014/34/EU.

The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer.

The degree of protection is IP66 on the whole series.

Compliance with standards
Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31

Directive 2014/35/EU
EN 60669-1
EN 60947-5-1 (Push-buttons)

Atex execution
II 3G 3D

Ex nR IIC T6 Gc
Ex tc IIIC T 70 °C Dc

Casing material
Palazzoli antistatic thermosetting GRP

Surface resistance
<10⁹ Ω
(prevention of electrostatic charge accumulation)

Protection rating
(IP according to IEC/EN 60529)
IP66

Colour
RAL 9005 (black)

Resistance to abnormal heat and fire ("Glow wire" according to IEC/EN 60695-2-10)
960°C

Flammability rating
(according to UL94)
V0

Operating frequency
50 - 60Hz

Insulation class
II

Entry cable diameter
10 - 14 mm

Operating temperature
-20°C - +40°C





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



**Isolator switches
and two-way switches**
in thermosetting GRP
for wall-mounting
IP66

Electrical scheme	Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
switch	1P		16A 250V~ / 10A 400V~	202271EX	1
switch	2P		16A 250V~ / 10A 400V~	202282EX	1
two-way switch	1P		16A 250V~ / 10A 400V~	202276EX	1

Equipment included: cable gland in technopolymer type M20.

Features: the lower entry is the predisposition for restricted breathing test.



Selector switch
in thermosetting GRP
for wall-mounting
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P		16A 250V~ / 10A 400V~	202275EX	1

Equipment included: cable gland in technopolymer type M20.

Features: the lower entry is the predisposition for restricted breathing test. By removing the internal jumper, the device can be used as two independent one-pole switches.



Push-buttons
in thermosetting GRP
for wall-mounting
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1 NO		10A 400V~	261435EX	1
1 NC		10A 400V~	261445EX	1

Equipment included: cable gland in technopolymer type M20.

Features: the lower entry is the predisposition for restricted breathing test.



Start-stop push button panel
in thermosetting GRP
for wall-mounting
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1 NO + 1 NC		10A 400V~	261432EX	1

Equipment included: cable gland in technopolymer type M20.

Features: the lower entry is the predisposition for restricted breathing test.



On-off push button panel
in thermosetting GRP
for wall-mounting
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1 NO + 1 NC		10A 400V~	261433EX	1

Equipment included: cable gland in technopolymer type M20.

Features: the lower entry is ready for the restricted breathing test.



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

Small devices and watertight boxes in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/EU.

Box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised, scratch-resistant, non-ageing, non-toxic polyester painting. The cover is attached to the back box by means of stainless steel screws while the sealing is guaranteed by a gasket in non-ageing elastomer. Designed to enable internal and external earthing.

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31

Directive 2014/35/EU
EN 60669-1
EN 60947-5-1 (Button)

Atex execution

 **II 3G 3D**

Ex nR IIC T6 Gc
Ex tc IIIC T 70 °C Dc

Material **Aluminium alloy**

Surface treatment **Passivation with fluoro-zirconium treatment**

Paint **Hot polymerised non-toxic, non-ageing polyester**

Colour **RAL 9005 (black)**

Protection rating (IP according to IEC/EN 60529) **IP66**

Operating frequency **50 - 60Hz**

Insulation class **I**

Entry cable diameter **10 - 14 mm**

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





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



Switches
in aluminium alloy
for wall-mounting
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	16A 250V~ / 10A 400V~	201151EX	1
2P	M20	16A 250V~ / 10A 400V~	201152EX	1

Equipment included: cable gland in technopolymer type M20.
Earthing terminal inside and outside the box.

Features: the lower entry is the predisposition for restricted breathing test.



Push-button
in aluminium alloy
for wall-mounting
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1NA	M20	10A 400V~	261021EX	1

Equipment included: cable gland in technopolymer type M20.
Earthing terminal inside and outside the box.

Features: the lower entry is the predisposition for restricted breathing test.



Two-way switch
in aluminium alloy
for wall-mounting
IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1P	M20	16A 250V~ / 10A 400V~	201156EX	1

Equipment included: cable gland in technopolymer type M20.
Earthing terminal inside and outside the box.

Features: the lower entry is ready for the restricted breathing test.



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

Sirens and bells in aluminium alloy for continuous operation, suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/EU.

The internal terminal block is in self-extinguishing thermosetting GRP insulating material and contributes to the non-sparking protection mode. Earth screws inside and outside the box.

Back box and cover are treated with ecological anticorrosion passivation with fluoro-zirconium treatment and finished with hot polymerised scratch-resistant non-toxic polyester painting.

The colour of the box is RAL 9005 black while the cover is RAL 2011 deep orange with high recognisability.

The gaskets 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.

Compliance with standards
**Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31**

**Directive LVD 2014/35/EU
EN 62080**

Atex execution
II 3G 2D/3D
(sirens)
II 3G Ex nA IIC T3 Gc
II 2D Ex tb IIIC T 65 °C Db
(bells)
II 3G Ex nA IIC T3 Gc
II 3D Ex tc IIIC T 65 °C Dc

Casing material **Aluminium alloy**

Bell drum material **Painted galvanised steel**

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

Protection rating
IP66 (sirens)
IP55 (bells)

Operating voltage **24VAC - 230VAC**

Operating frequency **50-60Hz**

Insulation class **I**

Entry cable diameter **10 - 14 mm**

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





ALARM-EX series

Watertight sirens and BELLS for signalling and alarming

ATEX
solutions for explosive
atmospheres

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



Sirens in aluminium alloy
with vibrating membrane
50-60Hz **IP66**



Technopolymer
M20 cable gland

Rated voltage (V)	Sound level (dB)	Initial power (VA)	Vibrating power (VA)	Palazzoli code	Pack Qty
24	105	60	25	900453EX	1
110	105	60	25	900463EX	1
230	105	60	25	900473EX	1

Equipment included: cable gland in technopolymer type M20.
Terminal block in insulating thermosetting GRP.
Earthing terminal inside and outside the box.



Directional horn
for sirens

Max. diameter (mm)	Projection siren+horn (mm)	Palazzoli code	Pack Qty
112	238	900449	1

Equipment included: complete with stainless steel fixing screws.

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



Bells in aluminium alloy
with steel drum
50-60Hz **IP55**



Technopolymer
M20 cable gland

Rated voltage (V)	Sound level (dB)	Initial power (VA)	Vibrating power (VA)	Palazzoli code	Pack Qty
24	101	13	11	900253EX	1
110	101	13	11	900263EX	1
230	101	13	11	900273EX	1

Equipment included: cable gland in technopolymer type M20.
Terminal block in insulating thermosetting GRP.
Earthing terminal inside and outside the box.



RINO-EX series

Fluorescent light fixtures in stainless steel

ATEX
solutions for
explosive atmospheres

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

Watertight light fixtures in AISI 304 stainless steel for applications in explosion hazardous areas as defined in ATEX 2014/34/EU Directive.

The diffuser is made of tempered glass. The fixing hooks are in AISI 304 stainless steel.

The sealing is guaranteed by a gasket reinforced in non-ageing elastomer.

Complete with corrosion resistant non-loosening terminals and non-sparking lamp holders. Supplied with M20 cable gland.

Complete with internal and external earth connection.

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-7
EN 60079-18
EN 60079-31
Directive 2014/35/EU
EN 60598-1
EN 60598-2-1
EN 62493
Directive 2014/30/EU
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
Directive 2011/65/EU
EN 50581

Atex execution

II 2G 2D
Ex and mb IIC T4 Gb
Ex tb IIIC T 70 °C Db

Casing material **AISI 304 stainless steel**

Diffuser material **Tempered glass**

Protection rating
(IP according to
IEC/EN 60529) **IP66**

Supply voltage **110 - 240 Vac-dc**

Operating frequency **0-50-60Hz**

Power factor **≥ 0.9**

Lamp holder **G13 T8 preventing the unhooking**

Max conductor
cross-section **4 mm²**

Entry cable diameter **7-12 mm**

Insulation class **I**

Operating
temperature **-40°C - +55°C**



The photometric curves (LDT files) are available on www.palazzoli.com

Technical data sheets updated to new standards
on palazzoli.com website



RINO-EX series

Fluorescent light fixtures in stainless steel

ATEX
solutions for
explosive atmospheres

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



Light fixtures
in stainless steel-glass
with white reflector
IP66



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1X18	690	T8	standard	8	822181EX	1
1X36	1300			8	822281EX	1
2X18	690			9	822182EX	1
2X36	1300			9	822282EX	1

Features: fluorescent tubes are not included.
Light fixture predisposed with 2+1 M20 holes for in-out connection.
2 M8 threaded holes for fixing the accessories.



Pair of eyebolts
for pendant mounting
of steel light fixtures
with screw coupling

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	820011	1

Equipment included: screws and accessories for fixing.



Pair of adjustable supports
for wall or ceiling mounting
of steel light fixtures
with screw coupling

Rotation angle	Manufacturing material	Palazzoli code	Pack Qty
± 75°	AISI 304 stainless steel	820010	1

Equipment included: screws and accessories for fixing.



Pair of collars
for mounting on tube
of steel light fixtures
with screw coupling

Manufacturing material	Tube diameter ø (mm)	Palazzoli code	Pack Qty
AISI 304 stainless steel	60	820016	1

Equipment included: screws and accessories for fixing.



Pair of brackets
for ceiling mounting
of steel light fixtures
with screw coupling

Manufacturing material	Palazzoli code	Pack Qty
AISI 304 stainless steel	820017	1

Equipment included: screws and accessories for fixing.



Symmetrical reflectors
in aluminium
for steel light fixtures

Manufacturing material	For light fixtures (W)	Palazzoli code	Pack Qty
aluminium	18	820002	1
	36	820003	1



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

Watertight light fixtures in AISI 304 stainless steel for applications in explosion hazardous areas as defined in ATEX 2014/34/EU Directive.

The diffuser is made of tempered glass. The fixing hooks are in AISI 304 stainless steel.

The sealing is guaranteed by a gasket reinforced in non-ageing elastomer.

Complete with corrosion resistant non-loosening terminals and non-sparking lamp holders. Supplied with M20 cable gland.

Complete with internal and external earth connection.

Compliance with
standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-15
EN 60079-31
Directive 2014/35/EU
EN 60598-1
EN 60598-2-1
EN 60598-2-22
EN 62493
Directive 2014/30/EU
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
Directive 2011/65/EU
EN 50581

Atex execution

II 3G 2D
Ex nA IIC T4 Gc
Ex tb IIIC T 85 °C Db

 II 3G 3D
Ex nR IIC T6 Gc
Ex tc IIIC T 70 °C Dc
(emergency)

Casing material **AISI 304 stainless steel**

Diffuser material **Tempered glass**

Protection rating
(IP according to
IEC/EN 60529) **IP66**

Supply voltage **230 Vac-dc**

Operating frequency **0-50-60Hz**

Power factor **≥ 0.9**

Lamp holder **G13 T8**

Max conductor
cross-section **2.5 mm²**

Entry cable diameter **10 - 14 mm**

Emergency
battery lifetime **1h**

Emergency battery
charging time **24h**

Insulation class **I**

Operating
temperature **-20°C - +40°C (2 tubes)
-20°C - +50°C (1 tube)**



The photometric curves (LDT files) are available on www.palazzoli.com

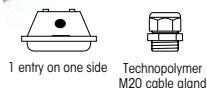
Technical data sheets updated to new standards
on palazzoli.com website



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



Light fixtures
in stainless **steel-glass**
with **white reflector**
IP66



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1X18	690	T8	standard	8	822131EX	1
1X36	1300			8	822231EX	1
1X58	1600			8	822331EX	1
2X18	690			9	822132EX	1
2X36	1300			9	822232EX	1
2X58	1600			9	822332EX	1
(1+1)x18	690	T8	emergency	9	822111EX	1
(1+1)x36	1300			9	822211EX	1
(1+1)x58	1600			9	822311EX	1

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.

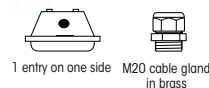
Features: fluorescent tubes are not included.

Notes: emergency light fixtures are suitable for zone 2-22.

Technical accessories:



Light fixtures
in stainless **steel - glass**
with **symmetrical**
aluminium reflector
IP66



Power (W)	Length (mm)	For tubes type	Version	Photometric curves	Palazzoli code	Pack Qty
1X18	690	T8	standard	10	820131EX	1
1X36	1300			10	820231EX	1
1X58	1600			10	820331EX	1
2X18	690			11	820132EX	1
2X36	1300			11	820232EX	1
2X58	1600			11	820332EX	1
(1+1)x18	690	T8	emergency	11	820111EX	1
(1+1)x36	1300			11	820211EX	1
(1+1)x58	1600			11	820311EX	1

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.

Features: fluorescent tubes are not included.

Notes: emergency light fixtures are suitable for zone 2-22.

Technical accessories:





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

Watertight light fixtures in aluminium alloy suitable for applications in explosion hazardous areas as defined in ATEX Directive 2014/34/EU.

The body of the light fixture is treated with ecological anti-corrosion passivation with fluoro-zirconium and finished with hot polymerised scratch-resistant non-toxic non-ageing polyester painting.

The colour of the body is light grey RAL 7035.

The diffuser is in prismatic tempered glass.

The steel wire protection cage is RAL 2011 deep orange and is attached to the body by means of stainless steel screws while the sealing is guaranteed by a reinforced gasket in non-ageing elastomer.

Predisposed for entry through an M20 cable gland.

Complete with internal and external earth screw.

Compliance with standards	Directive ATEX 2014/34/EU EN 60079-0 EN 60079-15 EN 60079-31 Directive 2014/35/EU EN 60598-1 EN 60598-2-1 Directive 2011/65/EU EN 50581
Atex execution	 II 3G 2D Ex nA IIC T3 Gc Ex tb IIIC T 75/85/90 °C Db
Casing material	Aluminium alloy
Surface treatment	Passivation with fluoro-zirconium treatment
Paint	Hot polymerised non-toxic, non-ageing polyester
Colour	RAL 7035 (light grey) Body RAL 2011 (deep orange) Protection cage
Diffuser material	Prismatic tempered glass
Protection rating (IP according to IEC/EN 60529)	IP65
Protection cage material	Painted tropicalised steel wire
Supply voltage	230V
Operating frequency	50-60Hz
Max conductor cross-section	2.5 mm²
Entry cable diameter	10 - 14 mm
Lamp holder type	Type E27 in porcelain
Insulation class	I
Operating temperature	-20°C - +40°C





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



Oval light fixtures
in aluminium alloy
with steel protective cage
IP65

Power (W)	Dimensions (mm)	Palazzoli code	Pack Qty
18	199x112	831072EX	1
28	226x130	831172EX	1
53	295x170	831272EX	1

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

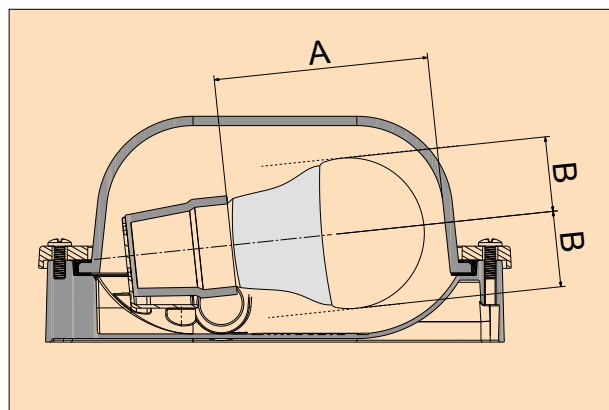


Round light fixtures
in aluminium alloy
with steel protective cage
IP65

Power (W)	Dimensions (mm)	Palazzoli code	Pack Qty
28	200x182	830072EX	1

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

Light fixture/lamp selection



Dimensions

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



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

Watertight light fixtures in AISI 304 stainless steel for applications in explosion hazardous areas as defined in ATEX Directive 304/EU.

The light fixture is equipped with LED strips, 4000K colour temperature and CRI $\geq$ 80, installed on an ultra-bright aluminium reflector.

The body is cold-drawn in a single piece.

The diffuser is in tempered glass without metallic frame. The IP66 rating is guaranteed by a reinforced gasket in non-ageing elastomer and hooks in stainless steel AISI304.

The cable entry is made with an M20 cable gland in technopolymer.

Compliance with standards	Directive ATEX 2014/34/EU EN60079-0 EN60079-15 EN60079-31 Directive 2014/35/EU EN 60598-1 EN 60598-2-1 EN 62471 EN 60598-2-22 EN 62493 IEC/TR 62778 Directive 2014/30/EU EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3 Directive 2011/65/EU EN 50581
Atex execution	 II 3G 3D Ex nR IIC T6 Gc Ex tc IIIC T 70 °C Dc
Body material	AISI 304 stainless steel Painted galvanised steel
Diffuser material	Tempered glass
Protection rating (IP according to IEC/EN 60529)	IP66
Paint	Non-toxic polyester resistant to weather conditions and UV rays
Colour	RAL 9016 (painted galvanised steel version)
Impact resistance (IK rating according to IEC/EN 62262)	IK09
Colour temperature	4000K
CRI	≥ 80
Insulation class	I
Supply voltage	220V - 240V
Operating frequency	50-60Hz
Input surge protection	2 kV EN 61000
Photobiological risk	Exempt
Power factor	≥ 0.95
Max conductor cross-section	2.5 mm²
Entry cable diameter	10-14 mm
Emergency battery lifetime	1h
Emergency battery charging time	24h
Estimated device lifetime	L80 B20 @50.000h Tq=25°C
Storage temperature	-40°C - +70°C
Operating temperature	-25°C - +40°C



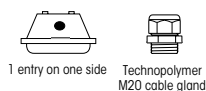
The photometric curves (LDT files) are available on www.palazzoli.com



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



LED light fixtures
in **stainless steel - glass**
with **extra wide beam optics**
IP66



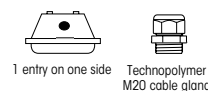
Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
24	690	3.300	standard	19	822142EX	1
38	1300	5.600		20	822242EX	1
44	1600	6.500		21	822342EX	1
19	690	2.750	emergency	22	822140EX	1
36	1300	5.250		23	822240EX	1
44	1600	6.500		21	822340EX	1

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.
Notes: the stated values may be subject to a +/- 7% tolerance.

Technical accessories:



LED light fixtures in painted
galvanised steel-glass
with **extra wide beam optics**
IP66



Device power (W)	Length (mm)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
24	690	3.300	standard	19	842142EX	1
38	1300	5.600		20	842242EX	1
19	690	2.750		22	842140EX	1
36	1300	5.250	emergency	23	842240EX	1

Equipment included: pair of hooks in AISI 304 steel for pendant mounting, code 820001.
Notes: the stated values may be subject to a +/- 7% tolerance.

Technical accessories:



EMERGENCY FLUX

Rated flux (lm) Tj= 25 °C	Rated flux in emergency (lm)
2.750	962
5.250	945
6.500	975

Notes: the emergency flux is achieved by reducing the rated flux of the unit.



	GAS			DUST		
ZONE	0	1	2	20	21	22
USABLE						X

MITO LED-EX is suitable for use in explosion hazardous areas according to ATEX directive 2014/34/EU.

MITO LED-EX guarantees specific lighting and mechanical characteristics for installation in industrial environments, food industries and outdoor areas. The body is made of die-cast aluminium with anti-corrosion treatment, finished with a scratch-resistant powder coating.

The diffuser, made of 4 mm extra-clear tempered glass, guarantees maximum resistance in harsh environments with chemical substances.

Thanks to the different optics available in the catalogue (extra wide beam, narrow beam, elliptical beam and asymmetrical beam), the working areas can be illuminated in the best possible way, guaranteeing visual comfort and the best lighting performance.

Compliance with standards

Directive ATEX 2014/34/EU
EN 60079-0
EN 60079-31
Directive 2014/35/EU
EN 60598-1
EN 60598-2-1
EN 62471
EN 62493
IEC/TR 62778
Directive 2014/30/EU
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
Directive 2011/65/EU
EN 50581

Atex execution	II 3D Ex tc IIIC T100 °C Dc
Body material	EN 46100 aluminium alloy
Surface treatment	Fluoro-zirconium treatment
Diffuser material	Extra clear tempered glass
Protection rating (IP according to IEC/EN 60529)	IP66
Paint	Hot-polymerised non-toxic polyester
Colour	RAL 9005
Impact resistance (IK rating according to IEC/EN 62262)	IK08
Corrosion class	C3 according to ISO 9223
Weight	max 9.5 kg
LED device efficiency	≥ 106 lm/W
Colour temperature	4000K (other temperatures on request)
CRI	≥ 80
Insulation class	I
Supply voltage	200-240V
Operating frequency	50-60 Hz
Input surge protection	10kV common mode 6 kV differential mode EN 61000
Residual flicker	< 1%
Photobiological risk	Exempt
Glare index	UGR ≤ 22
Power factor	≥ 0.95
Max conductor cross-section	1.5 mm ²
Entry cable diameter	7-13 mm
Cable entry	ATEX cable gland M20
Estimated device lifetime	L80 B20 @110.000h Tq= -30 °C to +40 °C
Storage temperature	-40 °C - +70 °C
Operating temperature	-30 °C to + 40 °C (up to +55 °C or other special configurations on request. Table on page 270)





MITO LED-EX series

Suspensions and LED floodlights in aluminium alloy

ATEX
solutions for
explosive atmospheres

SUITABLE FOR ZONE 22 (DUST)



Suspension LED light fixtures
glass diffuser
roto-symmetrical
extra wide beam optics
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	1	810090EX	1
12	133	17640		1	810020EX	1
15	168	22050		1	810050EX	1
18	199	26460		1	810080EX	1

Equipment included: quick connection for suspension.

Features: UGR>22. Typical installation height between 5 and 9 m.

Notes: the stated values may be subject to a +/- 7% tolerance.

Other DALI or wireless control systems are available on request.

Technical accessories:



Suspension LED light fixtures
glass diffuser
elliptical beam optics
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	8	810092EX	1
12	133	17640		8	810022EX	1
15	168	22050		8	810052EX	1
18	199	26460		8	810082EX	1

Equipment included: connection with double chain bracket.

Features: suitable for installation between the aisles of industrial warehouses etc.

Notes: the stated values may be subject to a +/- 7% tolerance.

Other DALI or wireless control systems are available on request.

Technical accessories:



Suspension LED light fixtures
glass diffuser
roto-symmetrical
narrow beam optics
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	2	810091EX	1
12	133	17640		2	810021EX	1
15	168	22050		2	810051EX	1
18	199	26460		2	810081EX	1

Equipment included: quick connection for suspension.

Features: typical installation height over 9 m.

Notes: the stated values may be subject to a +/- 7% tolerance.

Other DALI or wireless control systems are available on request.

Technical accessories:



LED floodlights
glass diffuser
asymmetrical optics
IP66

No. of LEDs	Device power (W)	Rated flux (lm) Tj= 25 °C	Version	Photometric curves	Palazzoli code	Pack Qty
9	99	13230	1-10 V dimmable standard	4	810296EX	1
12	133	17640		4	810226EX	1
15	168	22050		4	810256EX	1
18	199	26460		4	810286EX	1

Equipment included: adjustable bracket for wall-mounting or mounting on load-bearing structures (walls, poles, pylons).

Features: suitable for illuminating outdoor areas.

Notes: the stated values may be subject to a +/- 7% tolerance. Other DALI or wireless control systems are available on request.

Technical accessories:

