

Pavanzoni

CATALOGUE
ATEX 2024

ELECTRICAL SYSTEMS

LIGHTING





Atex

The Company has extensive experience in extreme environments where flammable materials, oxidising chemicals, salt solutions, acids and motor and vegetable oils are handled. Palazzoli is the absolute market leader in Atex products, explosion-proof equipment for high-risk environments. Power plants, chemical industries, oil platforms, military bases and refineries are just a few areas where lighting devices must prevent any propagation of sparks and ensure safe and reliable operation over time.



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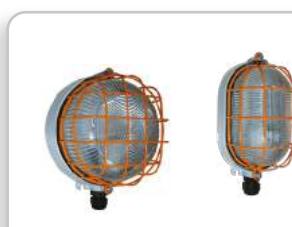
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Electrical Systems

The Company has consolidated experience in extreme environments, where the presence of oxidising chemicals, saline solutions, acids and motor and vegetable oils has forged the products for which Palazzoli is the absolute market leader.

The IEC regulatory system, in particular with the IEC 60079-10 series of standards, which establishes the basic rules for electrical installations in places where there is a danger of explosion due to the presence of both gas and combustible dust, with regard to the classification of hazardous areas, refers to a particular calculation model, called the I IEC zone system.

This model is based on the determination of the probability of the formation of an explosive atmosphere and its persistence over time in the environments, which thus become fundamental parameters for the classification of hazardous areas.

**Danger****Gases - vapours****Dusts**

Permanent

ZONE 0**ZONE 20**

Occasional

ZONE 1**ZONE 21**

Not likely

ZONE 2**ZONE 22**

XCEE-EX





XCEE-EX Zone 2, 21, 22

Mobile plugs in antistatic technopolymer

ADVANTAGES



1

Indirect clamping terminals prevent overheating and cable breaks even after 50,000 insertions.

The plug is equipped with an extra external cable clamp with a double lock to ensure maximum resistance against tearing.

2



3

The XCEE-EX casing, made of carbon-fibre-reinforced technopolymer, prevents the build-up of electrostatic charges, thus preventing the ignition of explosive gas, vapour or dust atmospheres.

Plugs come with a range of covers to ensure plug protection even in the most polluted environments.

4





XCEE-EX Zone 2, 21, 22

Mobile plugs in antistatic technopolymer



Atex execution - Gas	II 3G - Ex ec IIC T6...T4 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T70°C...T95°C Db
Body material	High-thickness antistatic technopolymer
Pin treatment	Nickel plating
Colour	RAL 9005 Jet black
Protection rating	IP66
Additional IP rating	IP66/IP67
Surface resistance	<11 Ω (prevention of electrostatic charge accumulation)
Resistance to abnormal heat and fire	650°C (grip) 960°C (insert)
Ambient operating temperature	See table
Ambient storage temperature	-50°C - +90°C
Rated current	16A - 32A - 63A
Operating voltage	50V - 690V (16A - 32A) 50V - 1000V (63A)
Insulation voltage	690V (16A - 32A) 1000V (63A)
Operating frequency	50-500Hz and DC
Terminal type	Indirect clamping

Ambient operating temperature

Rated current (A)	Ambient operating temperature (°C)	Temperature class (Gas)	Maximum surface temperature (°C) (Dust)
16	-40 ... +50	T6	T70
	-40 ... +65	T5	T85
32	-40 ... +40	T5	T70
	-40 ... +60	T4	T90
63	-40 ... +40	T5	T80
	-40 ... +55	T4	T95

DIRECTIVES

2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

IEC/EN 60079
IEC/EN 60079-7
IEC/EN 60079-31
IEC/EN 60309-1
IEC/EN 60309-1
IEC/EN 60309-2
IEC/EN 63000

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



XCEE-EX Zone 2, 21, 22

Mobile plugs in antistatic technopolymer



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	■	■	2P+ $\frac{1}{2}$	4	760124EX	1
	110	■	■	3P+ $\frac{1}{2}$	4	760134EX	1
	110	■	■	3P+N+ $\frac{1}{2}$	4	760144EX	1
	230	■	■	2P+ $\frac{1}{2}$	6	760126EX	1
	230	■	■	3P+ $\frac{1}{2}$	9	760139EX	1
	230	■	■	3P+N+ $\frac{1}{2}$	9	760149EX	1
	400	■	■	2P+ $\frac{1}{2}$	9	760129EX	1
	400	■	■	3P+ $\frac{1}{2}$	6	760136EX	1
	400	■	■	3P+N+ $\frac{1}{2}$	6	760146EX	1
	500	■	■	3P+ $\frac{1}{2}$	7	760137EX	1
	500	■	■	3P+N+ $\frac{1}{2}$	7	760147EX	1
	110	■	■	2P+ $\frac{1}{2}$	4	760224EX	1
	110	■	■	3P+ $\frac{1}{2}$	4	760234EX	1
	110	■	■	3P+N+ $\frac{1}{2}$	4	760244EX	1
32	230	■	■	2P+ $\frac{1}{2}$	6	760226EX	1
	230	■	■	3P+ $\frac{1}{2}$	9	760239EX	1
	230	■	■	3P+N+ $\frac{1}{2}$	9	760249EX	1
	400	■	■	2P+ $\frac{1}{2}$	9	760229EX	1
	400	■	■	3P+ $\frac{1}{2}$	6	760236EX	1
	400	■	■	3P+N+ $\frac{1}{2}$	6	760246EX	1
	500	■	■	3P+ $\frac{1}{2}$	7	760237EX	1
	500	■	■	3P+N+ $\frac{1}{2}$	7	760247EX	1
	110	■	■	2P+ $\frac{1}{2}$	4	760324EX	1
	110	■	■	3P+ $\frac{1}{2}$	4	760334EX	1
	110	■	■	3P+N+ $\frac{1}{2}$	4	760344EX	1
	230	■	■	2P+ $\frac{1}{2}$	6	760326EX	1
	230	■	■	3P+ $\frac{1}{2}$	9	760339EX	1
	230	■	■	3P+N+ $\frac{1}{2}$	9	760349EX	1
63	400	■	■	2P+ $\frac{1}{2}$	9	760329EX	1
	400	■	■	3P+ $\frac{1}{2}$	6	760336EX	1
	400	■	■	3P+N+ $\frac{1}{2}$	6	760346EX	1
	500	■	■	3P+ $\frac{1}{2}$	7	760337EX	1
	500	■	■	3P+N+ $\frac{1}{2}$	7	760347EX	1

Cable features

Rated current (A)	Poles	Entry cable diameter (mm)	Cable cross-section range (mm ²)
16	2P+ $\frac{1}{2}$	7 - 15	1 - 10
	3P+ $\frac{1}{2}$		
	3P+N+ $\frac{1}{2}$	9 - 19	
32	2P+ $\frac{1}{2}$	9 - 19	1 - 10
	3P+ $\frac{1}{2}$		
	3P+N+ $\frac{1}{2}$	13 - 21	
63	2P+ $\frac{1}{2}$	14 - 35	6 - 25
	3P+ $\frac{1}{2}$		
	3P+N+ $\frac{1}{2}$		



Watertight caps for plugs
IP67

Rated current (A)	Poles	Palazzoli code	Pack Qty
16A	2P+ $\frac{1}{2}$	476903	1
	3P+ $\frac{1}{2}$	476913	1
	3P+N+ $\frac{1}{2}$	476923	10
32A	2P+ $\frac{1}{2}$ / 3P+ $\frac{1}{2}$	476905	10
	3P+N+ $\frac{1}{2}$	476925	10
63A	2P+ $\frac{1}{2}$ / 3P+ $\frac{1}{2}$ / 3P+N+ $\frac{1}{2}$	476907	1
	2P+ $\frac{1}{2}$ / 3P+ $\frac{1}{2}$ / 3P+N+ $\frac{1}{2}$	476909	1

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

XCEE-EX PLUG with watertight cap



TAIS-EX





TAIS-EX Zone 2, 21, 22

Interlocked socket-outlets in antistatic thermosetting GRP

ADVANTAGES

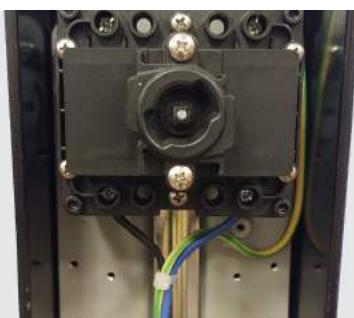


1

The TAIS-EX enclosure, made of carbon-fibre-reinforced thermosetting GRP, prevents the build-up of electrostatic charges, thus preventing the ignition of explosive gas, vapour or dust atmospheres.

The handle of the socket-outlet allows up to 3 padlocks to be used to ensure that safety procedures are followed during maintenance.

2



3

The interlocking mechanism is in metal. The cover is fixed to the body with stainless steel screws. The circuit breaker is category AC-23A with 10kA conditional short-circuit current rating.

TAIS-EX is the only series that allows to create sets of ATEX socket-outlets as easily as standard distribution boards.

4



For quick and easy installation, scan the QR code.





TAIS-EX Zone 2, 21, 22

Interlocked socket-outlets in antistatic thermosetting GRP



Atex execution - Gas	II 3G - Ex ec nC IIC T6...T3 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 70°C...105°C Db
Body material	Palazzoli antistatic Thermosetting GRP
Colour	RAL 9005 Jet black
Protection rating	IP66
Additional IP rating	IP66/IP67
Surface resistance	<10 ⁹ Ω (prevention of electrostatic charge accumulation)
Resistance to abnormal heat and fire	960°C
Flammability class	V-0
Insulation class	II
Ambient operating temperature	See table
Ambient storage temperature	-50°C - +90°C
Rated current	16A - 32A - 50A - 63A
Operating voltage	50V - 690V
Insulation voltage	690V
Operating frequency	50/60Hz



DIRECTIVES

2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

IEC/EN 60079-0
IEC/EN 60079-7
IEC/EN 60079-15
IEC/EN 60079-31
IEC/EN 60309-1
IEC/EN 60309-2
IEC/EN 60309-4
IEC/EN 63000

Rated operating current:		16A	32A	40A	50A	63A
Thermal current I _{th}	A	16	32	40	50	63
AC-21A	110V	A	16	32	40	50
230V						
400V						
500V						
AC-22A	110V	A	16	32	40	50
230V						
400V						
500V						
AC-23A	110V	A	16	32	40	50
230V						
400V						
500V						
AC-23A	110V	KW	2.4	4.9	6.1	7.6
230V	5.1		10.2	12.7	15.9	
400V	8.9		17.7	22.2	27.7	
500V	11.1		22.2	27.7	34.6	

Wiring data:	16A	32A	40A	50A	63A
Entry cable diameter	mm	12.5 - 25		19-32	
Entry cable cross-section	mm ²	1-10		6-25	
Tightening torque	Nm	2		3	

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



TAIS-EX Zone 2, 21, 22

Interlocked socket-outlets in antistatic thermosetting GRP

Ambient operating temperature

Version	Rated current (A)	Ambient operating temperature (°C)	Surface operating temperature (°C) (Dust)	Temperature class (Gas)
Direct	16	-40 ... +50	T70	T6
		-40 ... +65	T85	T5
	32	-40 ... +40	T70	T5
		-40 ... +65	T95	T4
	63	-40 ... +40	T80	T4
		-40 ... +65	T105	T3
Fuse	16	-40 ... +50	T70	T4
	32	-40 ... +40	T85	T3
	40/50	-40 ... +40	T95	T3

Ambient operating temperature for switches

Rated current (A)	Ambient operating temperature (°C)	Surface operating temperature (°C) (Dust)	Temperature class (Gas)
16	-40 ... +60	T80	T6
25	-40 ... +60	T85	T5
32	-40 ... +60	T90	T5
40/50	-40 ... +60	T90	T5
63	-40 ... +60	T95	T5
100	-40 ... +60	T105	T4

Table for selecting plugs that can be combined

Rated current		
Socket-outlets with fuses (A)	Socket-outlet without protection (A)	Plug (A)
16	16	16
32	32	32
40/50	63	63



For ATEX installation,
the QR code.





TAIS-EX Zones 2, 21, 22

Interlocked socket-outlets in antistatic thermosetting GRP

MODULE 125



Wall-mounted interlocked
socket-outlets
50/60Hz IP66/IP67

	Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M32 entry	110	■	2P+ $\frac{N}{\Delta}$	4	461124EX	1	
	110	■	3P+ $\frac{N}{\Delta}$	4	461134EX	1	
	110	■	3P+N+ $\frac{N}{\Delta}$	4	461144EX	1	
	230	■	2P+ $\frac{N}{\Delta}$	6	461126EX	1	
	230	■	3P+ $\frac{N}{\Delta}$	9	461139EX	1	
	230	■	3P+N+ $\frac{N}{\Delta}$	9	461149EX	1	
	400	■	2P+ $\frac{N}{\Delta}$	9	461129EX	1	
	400	■	3P+ $\frac{N}{\Delta}$	6	461136EX	1	
	400	■	3P+N+ $\frac{N}{\Delta}$	6	461146EX	1	
	500	■	3P+ $\frac{N}{\Delta}$	7	461137EX	1	
	500	■	3P+N+ $\frac{N}{\Delta}$	7	461147EX	1	
	110	■	2P+ $\frac{N}{\Delta}$	4	461224EX	1	
	110	■	3P+ $\frac{N}{\Delta}$	4	461234EX	1	
32 M32 entry	110	■	3P+N+ $\frac{N}{\Delta}$	4	461244EX	1	
	230	■	2P+ $\frac{N}{\Delta}$	6	461226EX	1	
	230	■	3P+ $\frac{N}{\Delta}$	9	461239EX	1	
	230	■	3P+N+ $\frac{N}{\Delta}$	9	461249EX	1	
	400	■	2P+ $\frac{N}{\Delta}$	9	461229EX	1	
	400	■	3P+ $\frac{N}{\Delta}$	6	461236EX	1	
	400	■	3P+N+ $\frac{N}{\Delta}$	6	461246EX	1	
	500	■	3P+ $\frac{N}{\Delta}$	7	461237EX	1	
	500	■	3P+N+ $\frac{N}{\Delta}$	7	461247EX	1	
	110	■	2P+ $\frac{N}{\Delta}$	4	461324EX	1	
	110	■	3P+ $\frac{N}{\Delta}$	4	461334EX	1	
	110	■	3P+N+ $\frac{N}{\Delta}$	4	461344EX	1	
	230	■	2P+ $\frac{N}{\Delta}$	6	461326EX	1	
63 M40 entry	230	■	3P+ $\frac{N}{\Delta}$	9	461339EX	1	
	230	■	3P+N+ $\frac{N}{\Delta}$	9	461349EX	1	
	400	■	2P+ $\frac{N}{\Delta}$	9	461329EX	1	
	400	■	3P+ $\frac{N}{\Delta}$	6	461336EX	1	
	400	■	3P+N+ $\frac{N}{\Delta}$	6	461346EX	1	
	500	■	3P+ $\frac{N}{\Delta}$	7	461337EX	1	
	500	■	3P+N+ $\frac{N}{\Delta}$	7	461347EX	1	

Equipment included: technopolymer cable gland.

Technical accessories:

	page 11		page 18		page 18
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MODULE 125



Wall-mounted interlocked
socket-outlets with fuse holder base
50/60Hz IP66/IP67

	Rated current (A)	Rated voltage (V)	Voltage colour	Poles	h ref.	Palazzoli code	Pack Qty
16 M32 entry	110	■	2P+ $\frac{N}{\Delta}$	4	462124EX	1	
	110	■	3P+ $\frac{N}{\Delta}$	4	462134EX	1	
	110	■	3P+N+ $\frac{N}{\Delta}$	4	462144EX	1	
	230	■	2P+ $\frac{N}{\Delta}$	6	462126EX	1	
	230	■	3P+ $\frac{N}{\Delta}$	9	462139EX	1	
	230	■	3P+N+ $\frac{N}{\Delta}$	9	462149EX	1	
	400	■	2P+ $\frac{N}{\Delta}$	9	462129EX	1	
	400	■	3P+ $\frac{N}{\Delta}$	6	462136EX	1	
	400	■	3P+N+ $\frac{N}{\Delta}$	6	462146EX	1	
	500	■	3P+ $\frac{N}{\Delta}$	7	462137EX	1	
	500	■	3P+N+ $\frac{N}{\Delta}$	7	462147EX	1	
	110	■	2P+ $\frac{N}{\Delta}$	4	462224EX	1	
	110	■	3P+ $\frac{N}{\Delta}$	4	462234EX	1	
	110	■	3P+N+ $\frac{N}{\Delta}$	4	462244EX	1	
32 M32 entry	230	■	2P+ $\frac{N}{\Delta}$	6	462226EX	1	
	230	■	3P+ $\frac{N}{\Delta}$	9	462249EX	1	
	400	■	2P+ $\frac{N}{\Delta}$	9	462229EX	1	
	400	■	3P+ $\frac{N}{\Delta}$	6	462236EX	1	
	400	■	3P+N+ $\frac{N}{\Delta}$	6	462246EX	1	
	500	■	3P+ $\frac{N}{\Delta}$	7	462237EX	1	
	500	■	3P+N+ $\frac{N}{\Delta}$	7	462247EX	1	
	110	■	2P+ $\frac{N}{\Delta}$	4	462324EX	1	
	110	■	3P+ $\frac{N}{\Delta}$	4	462334EX	1	
	110	■	3P+N+ $\frac{N}{\Delta}$	4	462344EX	1	
	230	■	2P+ $\frac{N}{\Delta}$	6	462326EX	1	
	230	■	3P+ $\frac{N}{\Delta}$	9	462339EX	1	
50 M40 entry	230	■	3P+N+ $\frac{N}{\Delta}$	9	462349EX	1	
	400	■	2P+ $\frac{N}{\Delta}$	9	462329EX	1	
	400	■	3P+ $\frac{N}{\Delta}$	6	462336EX	1	
	400	■	3P+N+ $\frac{N}{\Delta}$	6	462346EX	1	
	500	■	3P+ $\frac{N}{\Delta}$	7	462337EX	1	
	500	■	3P+N+ $\frac{N}{\Delta}$	7	462347EX	1	

Equipment included: technopolymer cable gland.

Features: fuses not included.

Notes: the 50A sockets installed in a distribution board have a maximum rated current of 40A. See guide to the creation of compositions on page 244.

Technical accessories:

	page 11		page 18		page 18
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GUIDE TO THE CREATION OF COMPOSITIONS WITH TAIS-EX SOCKET-OUTLETS

ATEX II 2D Ex tb IIIC T 70°...105 °C Db
II 3G Ex ec nC IIC T3/T4/T5/T6 Gc



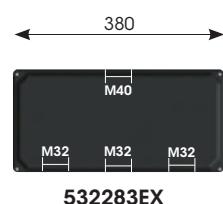
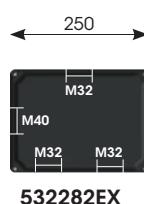
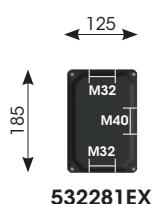
I	V	No. of poles	Entry	Direct supply	Fuses	
16A	230V	■ 2P+ $\frac{N}{\Delta}$	M32	461126EX	462126EX	760126EX
	400V	■ 3P+ $\frac{N}{\Delta}$	M32	461136EX	462136EX	760136EX
	400V	■ 3P+N+ $\frac{N}{\Delta}$	M32	461146EX	462146EX	760146EX
32A	230V	■ 2P+ $\frac{N}{\Delta}$	M32	461226EX	462226EX	760226EX
	400V	■ 3P+ $\frac{N}{\Delta}$	M32	461236EX	462236EX	760236EX
	400V	■ 3P+N+ $\frac{N}{\Delta}$	M32	461246EX	462246EX	760246EX
40A 50A	400V	■ 3P+ $\frac{N}{\Delta}$	M40		462336EX	760336EX
	400V	■ 3P+N+ $\frac{N}{\Delta}$	M40		462346EX	760346EX
63A	400V	■ 3P+ $\frac{N}{\Delta}$	M40	461336EX		760336EX
	400V	■ 3P+N+ $\frac{N}{\Delta}$	M40	461346EX		760346EX

Common items included for dust and gas: technopolymer cable gland.

In the boxes, instructions and labels to correctly identify the ATEX distribution board. Labels must be chosen according to the socket-outlets installed.

Common accessories	
	Fittings for coupling socket-outlets with boxes IP66
538429EX	M32
538436EX	M40
	Boxes in thermosetting GRP with blind cover for the composition of socket boards IP66/IP67
532281EX	125x185 x 1 16A-32A socket-outlet
532286EX	125x185 x 1 40A-63A socket-outlet
532282EX	250x185 x 2 16A-32A socket-outlets
532283EX	380x185 x 3 16A-32A socket-outlets
	Mounting plates in thermosetting GRP with guided system for the creation of multiple socket boards
538800EX	125x630 x 1 socket-outlet
538802EX	250x630 x 2 sockets
538804EX	380x630 x 3 socket-outlets

Examples of combinations





TAIS-EX Zones 2, 21, 22

Interlocked socket-outlets in antistatic thermosetting GRP



Boxes in thermosetting GRP
with blind cover for the composition
of socket boards IP66/IP67

Outer dimensions (mm)	Holes	Socket rated current (A)	Installable devices	Palazzoli code	Pack Qty
125x185x125	M32 ↓ M40 ↑ M32	16 - 32	1	532281EX	1
125x185x125	M40 ↓ M40 ↑ M40	40 - 63	1	532286EX	1
250x185x125	M32 ↓ M40 ↑ M32 M32	16 - 32	2	532282EX	1
380x185x125	M40 ↓ M40 ↑ M32 M32 M32	16 - 32	3	532283EX	1

Features: pre-drilled boxes.

Equipment included: in the boxes, instructions and labels to correctly identify the ATEX distribution board. Labels must be chosen according to the socket-outlets installed.

Technical accessories:



page 26



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

Outer dimensions (mm)	Installable devices	Palazzoli code	Pack Qty
125x630	1	538800EX	1
250x630	2	538802EX	1
380x630	3	538804EX	1

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

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



Fittings for coupling
socket-outlets with boxes
IP66

From hole	To hole	Thread length (mm)	Palazzoli code	Pack Qty
M32	M32	23	538429EX	1
M40	M40	23	538436EX	1

Features: they are used to couple socket-outlets with boxes.

TAIS-EX

electrifies the large mills of Marghera in Italy





TAIS-EX SERIES Zone 1, 2, 21, 22

Boxes in antistatic thermosetting GRP



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

Directive ATEX 2014/35/EU
EN 62208

II 2G 2D

Atex execution

Ex e IIC Gb
Ex tb IIIC Db

Material	Palazzoli antistatic thermosetting GRP
Surface resistance (prevention of electrostatic charge accumulation)	< 10 ⁹ 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)

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.

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



DIRECTIVES

2014/34/EU (ATEX)

PRODUCT STANDARDS

IEC/EN 60079-0
IEC/EN 60079-7
IEC/EN 60079-31
IEC/EN 60670-1
IEC/EN 60670-22



TAIS-EX SERIES Zone 1, 2, 21, 22

Boxes in antistatic thermosetting GRP



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



ALUPRES-EX SERIES Zone 1, 2, 21, 22

Boxes in aluminium alloy

Compliance with standards	Directive ATEX 2014/34/EU EN 60079-0 EN 60079-7 EN 60079-31
Atex execution	Ex 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)



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.

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.

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



DIRECTIVES

2014/34/EU (ATEX)

PRODUCT STANDARDS

IEC/EN 60079-0
IEC/EN 60079-7
IEC/EN 60079-31
IEC/EN 60670-1
IEC/EN 60670-22

ALUPRES-EX

electrifies the SAIPEM drilling plants in Saudi Arabia





CUSTOMISED ATEX JUNCTION BOXES

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:

- 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.

- 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	-	-
	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

- 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.

- 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 at page 20 for the TAIS-EX series and page 22 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 (mm ²)						
	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

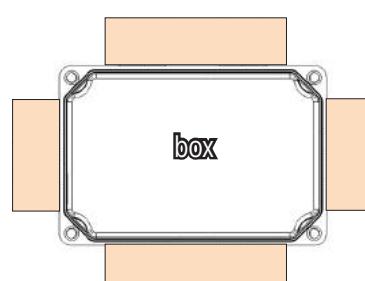
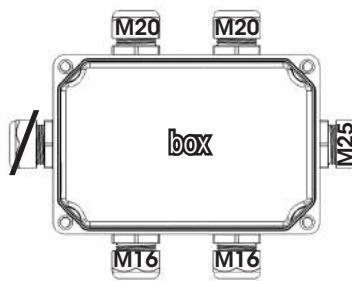
BRAND OF CABLE GLAND: _____

(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**.



UNI-EX SERIES Zones 1, 2, 21, 22

Cable glands and adaptors

	Directive ATEX 2014/34/EU EN 60079-0 EN 60079-7 EN 60079-31
Compliance with standards	IEC/EN 60079-0 IEC/EN 60079-1 IEC/EN 60079-7 IEC/EN 60079-31 ISO 965-1 ISO 965-3
	Ex II 2G 2D (cable glands) Ex e IIC, Ex tb IIIC
Atex execution	(cable glands for armoured cables) Ex db/eb IIC, Ex tb IIIC (adaptors) Ex d IIC, Ex e IIC, Ex tb IIIC
Material	(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



DIRECTIVES

2014/34/EU (ATEX)

PRODUCT STANDARDS

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



Cable glands with Pg pitch in technopolymer IP66/IP68

Pg	Max. 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



Cable glands with Pg pitch and long threading in technopolymer IP66/IP68

Pg	Max. 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



Locknuts in insulating material with Pg pitch

Pg	Palazzoli code	Pack Qty
7	571207	50
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



UNI-EX SERIES Zones 1, 2, 21, 22

Cable glands and adaptors



Cable glands
with metric pitch
in technopolymer
IP66/IP68

Threading	Max. 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



Screwcaps with metric threading
IP66/IP68

Threading	Max. mounting hole (mm)	Thread length (mm)	Palazzoli code	Pack Qty
M12x1,5	12.5	15	581312EX	1
M16x1,5	16.5	15	581316EX	1
M20x1,5	20.5	15	581320EX	1
M25x1,5	25.5	15	581325EX	1
M32x1,5	32.5	15	581332EX	1
M40x1,5	40.5	15	581340EX	1
M50x1,5	50.5	15	581350EX	1
M63x1,5	63.5	15	581363EX	1



Cable glands
with metric pitch and long threading
in technopolymer
IP66/IP68

Threading	Max. 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



Metric pitch locknuts
in technopolymer

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



UNI-EX SERIES Zones 1, 2, 21, 22

Cable glands and adaptors



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

Threading	Max. 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
IP66/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	Max. 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
IP68

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



Nickel-plated brass locknuts
with metric pitch

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

TAIS-EX

electrifies the Rotterdam regasification plant in Netherlands





CAMTAIS-EX SERIES Zones 2, 21, 22

Rotary devices in antistatic thermosetting GRP

Atex execution - Gas	II 3G -Ex ec nC IIC T4/ T5/T6 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C...105°C Db
Body material	Palazzoli antistatic thermosetting GRP
Colour	RAL 9005 Jet black
Protection rating	IP66
Surface resistance	<10 ⁹ Ω (prevention of electrostatic charge accumulation)
Resistance to abnormal heat and fire	960°C
Flammability class	V-0
Insulation class	II
Ambient operating temperature	See table on page 243
Ambient storage temperature	-50°C - +80°C
Rated current	16A - 25A - 32A - 40A - 63A - 100A
Operating voltage	690V
Insulation voltage	690V
Operating frequency	50/60Hz



DIRECTIVES

2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

IEC/EN 60079-0
IEC/EN 60079-7
IEC/EN 60079-15
IEC/EN 60079-31
IEC/EN 60947-3
IEC/EN 60947-1
IEC/EN 63000

Rated operating current:		16A	25A	32A	40A	63A	100A
Thermal current Ith	A	16	25	32	40	63	100
AC-21A	230V 400V 500V 690V	A	16	25	32	40	63
AC-22A	230V 400V 500V 690V	A	16	25	32	40	63
AC-23A	110V 230V 400V 500V 690V	A	16	25	32	40	63
AC-23A	110V 230V 400V 500V 690V	kW	2.4 5.1 8.9 11.1 15.3	3.8 8.0 13.9 17.3 23.9	4.9 10.2 17.7 22.2 30.6	6.1 12.7 22.2 27.7 38.2	9.6 20.1 34.9 43.6 60.2

Wiring data:	16A	25A	32A	40A	63A	100A
Entry cable cross-section	mm ²	1-10		6-35		
Tightening torque	Nm	2		3		



Wall-mounted isolator switches
in thermosetting GRP
IP66



Rated current (A)	Poles	Enclosure dimensions (mm)	Hole type	Palazzoli code	Pack Qty
	2			290162EX	1
16	3			290163EX	1
	4	125x185	M25	290164EX	1
	2		M25	290252EX	1
25	3			290253EX	1
	4			290254EX	1
	3			290323EX	1
32	4			290324EX	1
	3			290403EX	1
40	4	125x185	M32	290404EX	1
	3			290633EX	1
63	4			290634EX	1
	3			290103EX*	1
100	4	185x250	M40	290104EX*	1

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

Features: handle padlockable with 3 padlocks up to 8 mm.

* handle padlockable in the "0" position with 2 padlocks. Under certification.



CAMALUPRES-EX SERIES Zones 2, 21, 22

Rotary devices in aluminium alloy

Atex execution - Gas	II 3G -Ex ec nC IIC T4/T5/T6 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 80°C...105°C Db
Body material	Aluminium alloy
Colour	RAL 9005 Jet black
Protection rating	IP66
Insulation class	I
Ambient operating temperature	-35°C - +65°C (-40°C on request) See table on page 243
Ambient storage temperature	-50°C - +80°C
Rated current	16A - 25A - 32A - 40A - 63A - 100A
Operating voltage	690V
Insulation voltage	690V
Operating frequency	50/60Hz



DIRECTIVES

2014/34/EU (ATEX)
2011/65/EU
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

IEC/EN 60079-0
IEC/EN 60079-7
IEC/EN 60079-15
IEC/EN 60079-31
IEC/EN 60947-3
IEC/EN 60947-1
IEC/EN 63000

Rated operating current:		16A	25A	32A	40A	63A	100A
Thermal current lth	A	16	25	32	40	63	100
AC-21A	230V	A	16	25	32	40	63
400V							
500V							
690V							
AC-22A	230V	A	16	25	32	40	63
400V							
500V							
690V							
AC-23A	110V	A	16	25	32	40	63
230V							
400V							
500V							
690V							
110V							
AC-23A	230V	kW	16	25	32	40	63
400V							
500V							
690V							
110V							
230V							
400V							
500V							
690V							

Wiring data:	16A	25A	32A	40A	63A	100A
Entry cable cross-section mm²	1-10				6-35	
Tightening torque Nm	2				3	



Wall-mounted isolator switches
in aluminium alloy
IP66



Rated current (A)	Poles	Enclosure dimensions (mm)	Entry type	Palazzoli code	Pack Qty
16	2	125x185	M25	270162EX	1
25	3	125x185	M25	270163EX	1
32	4	125x185	M25	270164EX	1
40	2	125x185	M25	270252EX	1
40	3	125x185	M25	270253EX	1
40	4	125x185	M25	270254EX	1
32	3	125x185	M32	270323EX	1
32	4	125x185	M32	270324EX	1
40	3	125x185	M32	270403EX	1
40	4	125x185	M32	270404EX	1
63	3	125x185	M32	270633EX	1
63	4	125x185	M32	270634EX	1
100	3	185x250	M40	270103EX*	1
100	4	185x250	M40	270104EX*	1

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

Features: handle padlockable with 3 padlocks up to 8 mm.

* handle padlockable in the "0" position with 2 padlocks. Under certification.



TAIS MIGNON-EX SERIES Zones 2, 22

Small devices in antistatic thermosetting GRP

Atex execution - Gas	II 3G - Ex nR IIC T6 Gc
Atex execution - Dust	II 3D - Ex tc IIIC T 70°C Dc
Body material	Palazzoli antistatic Thermosetting GRP
Colour	RAL 9005 Jet black
Protection rating	IP66
Surface resistance	<10⁹ Ω
Resistance to abnormal heat and fire	960°C
Flammability class	V-0
Insulation class	II
Ambient operating temperature	-20°C - +40°C
Ambient storage temperature	-50°C - +80°C



Wall-mounted isolator switches and two-way switches in thermosetting GRP IP66

Electrical scheme	Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
Switch	1P	M20	16A 250V~ / 10A 400V~	202271EX	1
Switch	2P	M20	16A 250V~ / 10A 400V~	202282EX	1
Two-way switch	1P	M20	16A 250V~ / 10A 400V~	202276EX	1
Selector switch	1P	M20	16A 250V~ / 10A 400V~	202275EX	1

Equipment included: technopolymer cable gland, M20 type.

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



Push-buttons for wall-mounted in thermosetting GRP IP66

Poles	Entry type	Rated current/voltage	Palazzoli code	Pack Qty
1 NO	M20	10A 400V~	261435EX	1
1 NC	M20	10A 400V~	261445EX	1
1 NO + 1 NC (green - red)	M20	10A 400V~	261432EX	1
1 NO + 1 NC (black - red)	M20	10A 400V~	261433EX	1

Equipment included: technopolymer cable gland, M20 type.

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



NYCE COLOMBIA

DIRECTIVES

- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/UE (RAEE)
- 2014/35/UE (LVD)

PRODUCT STANDARDS

- EN 60079-15:2010
- EN 60079-0/A11:2013
- EN 50581:2012
- EN 60079-31:2014
- EN 60669-1:1999
- EN IEC 63000:2018
- EN 60669-1:1999/A2:2008
- EN 60669-1:1999/A1:2002
- EN 60079-0:2012
- EN 60669-1/IS1:2009



ALARM-EX Zones 2, 21, 22

Sirens and horn in aluminium alloy

Atex execution - Gas	II 3G - Ex nA IIC T3 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 65 °C Db
Body material	Aluminium alloy (body)
Colour	RAL 9005 Jet black (box) RAL 2011 Deep orange (cover)
Protection rating	IP66 according to IEC 60598-1
Corrosivity category	Equivalent to C4-M / C3-H
Insulation class	I
Ambient operating temperature	-20°C - +40°C
Ambient storage temperature	-50°C - +80°C
Operating voltage	24VAC - 230VAC
Operating frequency	50/60Hz
Operation	Continuous
Entry cable diameter	10 - 14 mm



Sirens in aluminium alloy
with vibrating membrane
50/60Hz IP66

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: M20 technopolymer cable gland.
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.



DIRECTIVES

- 2014/34/UE (ATEX)
- 2014/35/UE (LVD)
- 2014/30/UE (EMC)
- 2011/65/UE (RoHS)
- 2012/19/UE (RAEE)

PRODUCT STANDARDS

- EN 60079-31:2014
- EN 60079-15:2010
- EN 60079-0/A11:2013
- EN IEC 63000:2018
- EN 50581:2012
- EN 60079-0:2012
- EN 62080:2009



Lighting

The Company has consolidated experience in extreme environments, where the presence of oxidising chemicals, saline solutions, acids and motor and vegetable oils has forged the products for which Palazzoli is the absolute market leader.

The IEC regulatory system, in particular with the IEC 60079-10 series of standards, which establishes the basic rules for electrical installations in places where there is a danger of explosion due to the presence of both gas and combustible dust, with regard to the classification of hazardous areas, refers to a particular calculation model, called the I IEC zone system.

This model is based on the determination of the probability of the formation of an explosive atmosphere and its persistence over time in the environments, which thus become fundamental parameters for the classification of hazardous areas.



Danger	Gases - vapours	Dusts
Permanent	ZONE 0	ZONE 20
Occasional	ZONE 1	ZONE 21
Not likely	ZONE 2	ZONE 22

Floodlights Page 36

Light fixtures Page 48

Pendant light fixtures Page 54

Traditional Page 60

TIGUA-EX





TIGUA-EX floodlight - Zones 1, 2, 21, 22

4,000 K - 230,000 h

ADVANTAGES



1

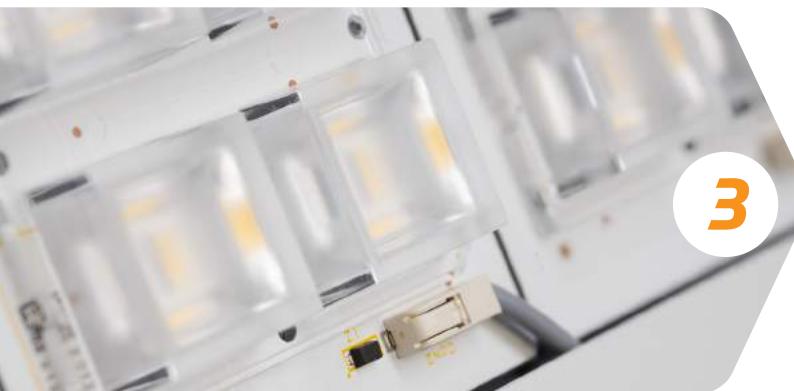
The DALI power supply integrated in the TIGUA-EX body is resin-coated and certified for explosion hazardous environments. In the versions for zone 1 versions, the polycarbonate lenses are sealed onto the LED module by means of silicone resin.

The body is made of EN 44300 aluminium alloy with low copper content, with passivation treatment and painting that make it suitable for harsh environments, corrosion class C5-M / C4-H.



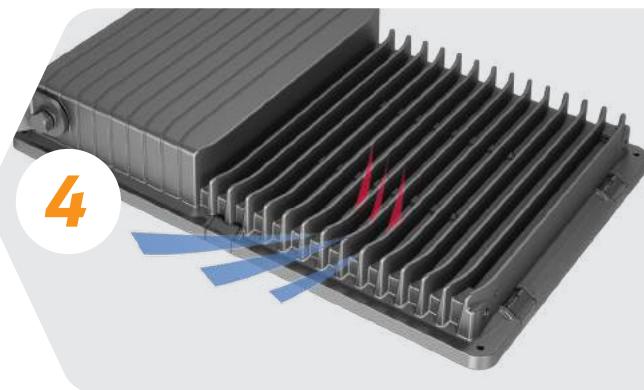
2

The optics are made from specialised lenses ensuring that the luminous flux is evenly distributed. A well-lit environment makes for a safer place.



3

TIGUA-EX's long service life is guaranteed by high-level electronic components, exclusive thermal management system, X-ray inspection of LED welds, 100% testing with 24-hour burn-in cycles, and Gore-Tex® anti-condensation breathing valve.



4



TIGUA-EX floodlight - Zones 1, 2, 21, 22

4,000 K - 230,000 h



7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-5
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

Atex execution - Gas	II 2G - Ex eb mb IIC T4 Gb
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	Marine aluminium alloy (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 9005 Jet black
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance	7J (body) 4J (glass)
Corrosivity category	Equivalent to C5-M / C4-H
Mounting system	U bracket with adjustment range of -135° to 135°
Ambient operating temperature	-35°C - +50°C (-40°C on request)
Ambient storage temperature	-40°C - +70°C
Actual efficacy of the device	Up to 115 lm/W
Colour temperature	4,000 K
Optics features	Non-ageing UV-resistant polycarbonate lenses sealed to the LED module by silicone resin
Colour rendering index according to EN 62717	CRI ≥ 80
Colour consistency	MacAdam 4-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L90 B10 110,000h Tq= +40 °C L90 B10 230,000h Tq= +25 °C
Insulation class	I
Supply voltage	110-277 Vac/110-250 Vdc: 50 W/72 W/101 W 160-277 Vac/160-250 Vdc: 144W 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

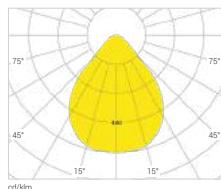
Versions with colour temperatures from 3000K to 6500K and ambient temperatures down to -40°C are also available.

TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



TIGUA-EX floodlight - Zones 1, 2, 21, 22

4,000 K - 230,000 h

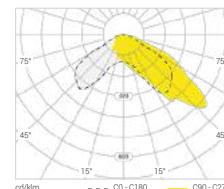


Symmetrical 81° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25 °C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
50	6980	5808	+50		817021EX
72	9950	8280	+40		817022EX
101	13950	11615	+50	DALI	817023EX
144	19850	16560	+40		817024EX

Equipment included: wall-mounting bracket.

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



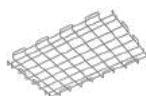
Asymmetrical 50° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25 °C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
50	6980	5808	+50		817221EX
72	9950	8280	+40		817222EX
101	13950	11615	+50	DALI	817223EX
144	19850	16560	+40		817224EX

Equipment included: wall-mounting bracket.

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

Accessories TIGUA-EX



Protection guard

Manufacturing material	Palazzoli code
galvanised steel	811911



Support for wall mounting with projecting arm – 750mm projection

Manufacturing material	Palazzoli code
painted galvanised steel	811914



Universal mounting bracket for pole-top installation for 60 mm and 76 mm nominal pole Ø

Manufacturing material	Palazzoli code
painted galvanised steel	811908



Kit consisting of collar and plate for 60 mm and 76 mm nominal pole Ø

Manufacturing material	Palazzoli code
painted galvanised steel	811912

Accessories junction boxes TAIS-EX at page 20 on request



XTIGUA-EX





XTIGUA-EX floodlight - Zones 1, 2, 21, 22

4,000 K - 230,000 h

ADVANTAGES



1

The DALI power supply integrated in the XTIGUA-EX body is resin-coated and certified for explosion hazardous environments. In the versions for zone 1 versions, the polycarbonate lenses are sealed onto the LED module by means of silicone resin.

The body is made of EN 44300 aluminium alloy with low copper content, with passivation treatment and painting that make it suitable for harsh environments, corrosion class C5-M / C4-H.

2



3

The optics are made from specialised lenses ensuring that the luminous flux is evenly distributed. A well-lit environment makes for a safer place.

XTIGUA-EX's long service life is guaranteed by high-level electronic components, exclusive thermal management system, X-ray inspection of LED welds, 100% testing with 24-hour burn-in cycles, and Gore-Tex® anti-condensation breathing valve.

4





XTIGUA-EX floodlight - Zones 1, 2, 21, 22

4,000 K - 230,000 h



7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-31
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-5
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

Atex execution - Gas	II 2G - Ex eb mb IIC T4 Gb
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	Marine aluminium alloy (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 9005 Jet black
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance according to IEC 60079-0	7J (body) 4J (glass)
Corrosivity category according to ISO 12944	Equivalent to C5-M / C4-H
Mounting system	U-bracket with adjustment range of -135° to +135°
Ambient operating temperature	-35°C - +45°C (-40°C on request)
Ambient storage temperature	-40°C - +70°C
Actual efficacy of the device	Up to 115 lm/W
Colour temperature	4,000 K
Optics features	Non-ageing UV-resistant polycarbonate lenses sealed to the LED module by silicone resin
Colour rendering index according to EN 62717	CRI ≥ 80
Colour consistency	MacAdam 4-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L90 B10 110,000h Tq= +40°C L90 B10 230,000h Tq= +25°C
Insulation class	I
Supply voltage	160-277 Vac/160-250 Vdc 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

Versions with colour temperatures from 3000K to 6500K and ambient temperatures down to -40°C are also available.

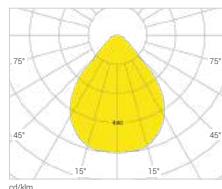
TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



XTIGUA-EX floodlight - Zones 1, 2, 21, 22



4,000 K - 230,000 h

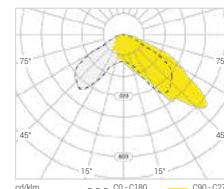


Symmetrical 81° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Max. ambient temperature (°C)	Version	Palazzoli code
151	20900	17365	+45		818021EX
216	29800	24840	+40		818022EX
201	27800	23115	+35	DALI	818023EX
288	39800	33120	+30		818024EX

Equipment included: wall-mounting bracket.

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



Asymmetrical 50° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Max. ambient temperature (°C)	Version	Palazzoli code
151	20900	17365	+45		818221EX
216	29800	24840	+40		818222EX
201	27800	23115	+35	DALI	818223EX
288	39800	33120	+30		818224EX

Equipment included: wall-mounting bracket.

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

Accessories XTIGUA-EX



Protection grid
for XTIGUA LED floodlights

Manufacturing material	Palazzoli code
galvanised steel	818992



Cross beam
for pole-top installation
for 1 XTIGUA series floodlight

Manufacturing material	Palazzoli code
painted galvanised steel	818990

Notes: cross beam suitable for mounting up to 2 floodlights.
The cross beam can be installed on ø 60 to ø 76 mm poles.



Cross beam
for pole-top installation
for 2 or 4 XTIGUA series floodlights

Manufacturing material	Palazzoli code
painted galvanised steel	818991

Notes: cross beam suitable for mounting up to 4 floodlights.
The cross beam can be installed on ø 60 to ø 76 mm poles.

Accessories junction boxes TAIS-EX at page 20 on request





TIGUA-EX floodlight - Zones 2, 21, 22

4,000 K - 230,000 h



7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-5
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

Atex execution - Gas	II 3G - Ex ec mc IIC T4 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	Marine aluminium alloy (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 9005 Jet black
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance according to IEC 60079-0	7J (body) 4J (glass)
Corrosivity category according to ISO 12944	Equivalent to C5-M / C4-H
Mounting system	U-bracket with adjustment range of -135° to +135°
Ambient operating temperature	-35°C - +50°C (-40°C on request)
Ambient storage temperature	-40°C - +70°C
Actual efficacy of the device	Up to 125 lm/W
Colour temperature	4,000 K
Optics features	Non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency
Colour rendering index according to EN 62717	CRI ≥ 70
Colour consistency	MacAdam 4-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L90 B10 110,000h Tq= +40°C L90 B10 230,000h Tq= +25°C
Insulation class	I
Supply voltage	110-277 Vac/110-250 Vdc: 50 W/72 W/101 W 160-277 Vac/160-250 Vdc: 144W 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

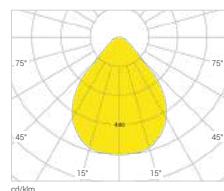
Versions with dedicated optics, colour temperatures from 3000K to 6500K and ambient temperatures down to -40°C are also available.

TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



TIGUA-EX floodlight - Zones 2, 21, 22

4,000 K - 230,000 h

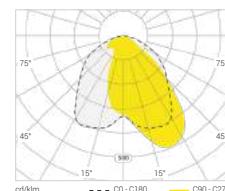


Symmetrical 81° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25 °C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
50	7600	6312	+50		837021EX
72	10800	9000	+40		837022EX
101	15150	12625	+50	DALI	837023EX
144	21600	18000	+40		837024EX

Equipment included: wall-mounting bracket.

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



Asymmetrical 23° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25 °C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
50	7600	6312	+50		837221EX
72	10800	9000	+40		837222EX
101	15150	12625	+50	DALI	837223EX
144	21600	18000	+40		837224EX

Equipment included: wall-mounting bracket.

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

Accessories TIGUA-EX



Protection guard

Manufacturing material	Palazzoli code
galvanised steel	811911



Support for wall mounting with projecting arm – 750mm projection

Manufacturing material	Palazzoli code
painted galvanised steel	811914



Universal mounting bracket for pole-top installation for 60 mm and 76 mm nominal pole Ø

Manufacturing material	Palazzoli code
painted galvanised steel	811908



Kit consisting of collar and plate for 60 mm and 76 mm nominal pole Ø

Manufacturing material	Palazzoli code
painted galvanised steel	811912

Accessories junction boxes TAIS-EX at page 20 on request





XTIGUA-EX floodlight - Zones 2, 21, 22

4,000 K - 230,000 h



7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-5
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

Atex execution - Gas	II 3G - Ex ec mc IIC T4 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	Marine aluminium alloy (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 9005 Jet black
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance according to IEC 60079-0	7J (body) 4J (glass)
Corrosivity category according to ISO 12944	Equivalent to C5-M / C4-H
Mounting system	U-bracket with adjustment range of -135° to +135°
Ambient operating temperature	-35°C - +45°C (-40°C on request)
Ambient storage temperature	-40°C - +70°C
Actual efficacy of the device	Up to 130 lm/W
Colour temperature	4,000 K
Optics features	Non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency
Colour rendering index according to EN 62717	CRI ≥ 70
Colour consistency	MacAdam 4-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L90 B10 110,000h Tq= +40°C L90 B10 230,000h Tq= +25°C
Insulation class	I
Supply voltage	160-277 Vac/110-250 Vdc 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

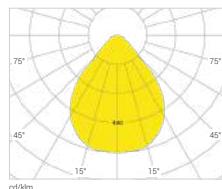
Versions with dedicated optics, colour temperatures from 3000K to 6500K and ambient temperatures down to -40°C are also available.

TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



XTIGUA-EX floodlight - Zones 2, 21, 22

4,000 K - 230,000 h

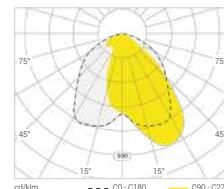


Symmetrical 81° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Max. ambient temperature (°C)	Version	Palazzoli code
151	23600	19630	+45		838021EX
216	33200	27648	+40		838022EX
201	31500	26208	+35	DALI	838023EX
288	44300	36864	+30		838024EX

Equipment included: wall-mounting bracket.

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



Asymmetrical 23° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25°C	Max. ambient temperature (°C)	Version	Palazzoli code
151	23600	19630	+45		838221EX
216	33200	27648	+40		838222EX
201	31500	26208	+35	DALI	838223EX
288	44300	36864	+30		838224EX

Equipment included: wall-mounting bracket.

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

Accessories X-TIGUA-EX



Protection grid
for XTIGUA LED floodlights

Manufacturing material	Palazzoli code
galvanised steel	818992



Cross beam
for pole-top installation
for 1 XTIGUA series floodlight

Manufacturing material	Palazzoli code
painted galvanised steel	818990

Notes: cross beam suitable for mounting up to 2 floodlights.
The cross beam can be installed on ø 60 to ø 76 mm poles.



Cross beam
for pole-top installation
for 2 or 4 XTIGUA series floodlights

Manufacturing material	Palazzoli code
painted galvanised steel	818991

Notes: cross beam suitable for mounting up to 4 floodlights.
The cross beam can be installed on ø 60 to ø 76 mm poles.

Accessories junction boxes TAIS-EX at page 20 on request



RINO LED-EX





RINO LED-EX light fixture - Zones 1, 2, 21, 22

ADVANTAGES



1

The light fixture is ATEX-certified by a third party for zone 1, 2, 21, 22. The driver placed inside it is resin-coated and suitable for highly explosive environments. In the versions for zone 1, the LED board is sealed with silicone resin.

The stainless steel casing and the special silicone seal guarantee high resistance to corrosion and aggressive atmospheres.

2



3

The possibility of special solutions makes the light fixture suitable for installation in any environment, whether with very high temperatures (up to +60 °C) or very low temperatures (down to -40 °C). The fastening system with eyebolts enables the device to be mounted to the ceiling without opening it.

The extra wide beam, narrow beam and comfort optics use specialist lenses with a glare index of UGR<22.

4





RINO LED-EX light fixture - Zones 1, 2, 21, 22



7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-1-1
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

Atex execution - Gas	II 2G - Ex eb mb IIC T6/T5 Gb
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	AISI 304 stainless steel
Surface treatment	Natural finish
Diffuser material	Extra clear tempered glass
Protection rating	IP65
Impact resistance according to IEC 60079-0	7J (body) 4J (glass)
Corrosivity category	Equivalent to C5-H
Mounting system	Pair of eyebolts in AISI 304 stainless steel
Ambient operating temperature	-35°C - +60°C (-40°C on request) 0°C - +45°C (emergency versions)
Ambient storage temperature	-40°C - +75°C -20°C - +60°C (emergency versions)
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4,000 K
Optics features	Anti-ageing- and UV-resistant silicone resin with > 95% efficiency
Colour rendering index values	CRI ≥ 80
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L80 B10 @90,000h Tq= +25°C
Emergency battery lifetime	1h - 3h
Emergency battery charging time	24h
Insulation class	I
Supply voltage	220-240V~ - 180-240Vcc 110-277 Vac/110-250 Vdc (DALI) 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

Feed-through wiring versions are also available, in AISI 316L stainless steel and with colour temperatures from 3000K to 6500K.

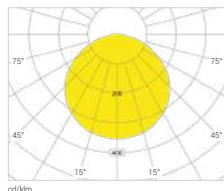
TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



RINO LED-EX light fixture - Zones 1, 2, 21, 22



690 mm 4,000 K - 90,000 h

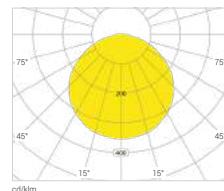


Symmetrical 110° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25 °C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
AISI 304 stainless steel					
23	4080	3400	+60		821172EX
36	6200	5180	+50		821272EX
56	9450	7870	+45	on-off	821372EX
71	11550	9623	+35		821472EX
Emergency					
36	6200	5180 967 in EM	+45	on-off	821270EX
71	11550	9623 912 in EM	+35	emergency 1h	821470EX
36	6200	5180 420 in EM	+45	on-off	821273EX
71	11550	9623 414 in EM	+35	emergency 3h	821473EX

Equipment included: pair of eyebolts in AISI 304 stainless steel for pendant mounting.**Notes:** the stated flux and power values may be subject to a +/- 7% tolerance.

1300 mm 4,000 K - 90,000 h



Symmetrical 110° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25 °C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
AISI 304 stainless steel					
47	8200	6831	+60		821572EX
71	11690	9736	+45	on-off	821672EX
86	14800	12353	+45	DALI	821772EX
Emergency					
71	11690	9736 925 in EM		on-off	821670EX
86	14800	12353 930 in EM		emergency 1h	821770EX
71	11690	9736 420 in EM	+45	on-off	821673EX
86	14800	12353 400 in EM		emergency 3h	821773EX

Equipment included: pair of eyebolts in AISI 304 stainless steel for pendant mounting.**Notes:** the stated flux and power values may be subject to a +/- 7% tolerance.

THROUGH WIRING

RINO ATEX is equipped with through wiring connection

- 1 M20 cable gland in technopolymer
- 2 M20 caps in technopolymer

Terminal block spring 4 mm², 2P+G1 entry
on 1 side2 entries
on 1 sideM20 cable gland
in technopolymer
Accessories RINO LED-EX at page 61



RINO LED-EX light fixture - Zones 2, 21, 22



Atex execution - Gas	II 3G - Ex ec mc IIC T6/T5 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	AISI 304 stainless steel Painted galvanised steel
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	White RAL 9016
Diffuser material	Extra clear tempered glass
Protection rating	IP65
Impact resistance according to IEC 60079-0	7J (body) 4J (glass)
Corrosivity category	Equivalent to C5-H AISI 304 stainless steel
Mounting system	Pair of eyebolts in AISI 304 stainless steel
Ambient operating temperature	-35°C - +55°C (-40°C on request) 0°C - +45°C (emergency versions)
Ambient storage temperature	-40°C - +70°C -30°C - +50°C (emergency versions)
Actual efficacy of the device	Up to 137 lm/W
Colour temperature	4,000 K
Optics features	Non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency
Colour rendering index values	CRI ≥ 80
Colour consistency	MacAdam 3-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L80 B10 @50,000 h Tq= +25°C
Emergency battery lifetime	1 h - 3 h
Emergency battery charging time	24h
Insulation class	I
Supply voltage	220-240V~ - 180-240Vcc 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

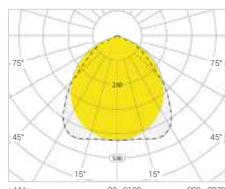
Versions are also available with ambient temperatures down to -40°C and up to +60°C; with feed-through wiring, in AISI 316L stainless steel and with colour temperatures from 3000K to 6500K.

TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



RINO LED-EX light fixture - Zones 2, 21, 22

690 mm 4,000 K - 50,000 h



88° symmetrical optics

Power (W)	Nominal flux (lm)Tj=25°C	Output flux (lm)Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
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AISI 304 stainless steel

26	4100	3562	+55	on-off	821192EX
38	6133	5130			821292EX

Emergency

38	4100	3562		on-off	821190EX
	1010 in EM				
71	6133	5130		emergency	821290EX
	1010 in EM			1h	
26	4100	3562	+45	on-off	821193EX
	400 in EM				
38	6133	5130		emergency	821293EX
	400 in EM			3h	

Painted galvanised steel

26	4100	3562	+55	on-off	841192EX
38	6133	5130			841292EX

Equipment included: pair of AISI 304 stainless steel eyebolts for pendant mounting.

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

THROUGH WIRING

RINO ATEX is equipped with through wiring connection

- 1 M20 cable gland in technopolymer
- 2 M20 caps in technopolymer

Terminal block spring 4 mm², 2P+PE

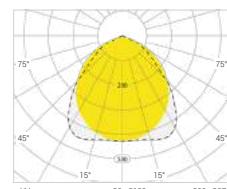


1 entry
on 1 side

2 entries
on 1 side

M20 cable gland
in technopolymer

1300 mm 4,000 K - 50,000 h



88° symmetrical optics

Power (W)	Nominal flux (lm)Tj=25°C	Output flux (lm)Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
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AISI 304 stainless steel

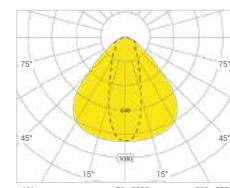
52	8200	7072	+55	on-off	821392EX
75	12260	10050			821492EX

Emergency

52	8200	7072		on-off	821390EX
75	12260	10050		emergency	821490EX
	1010 in EM			1h	
52	8200	7072	+45	on-off	821393EX
75	12260	10050		emergency	821493EX
	400 in EM			3h	

Painted galvanised steel

52	8200	7072	+55	on-off	841392EX
75	12260	10050			841492EX



Narrow beam optics 30°x90°

Power (W)	Nominal flux (lm)Tj=25°C	Output flux (lm)Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
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AISI 304 stainless steel

52	8200	6500	+55	on-off	820392EX
75	12260	9525			820492EX

Painted galvanised steel

52	8200	6500	+55	on-off	840392EX
75	12260	9525			840492EX

Accessories RINO LED-EX at page 61



TIGUA-EX pendant light fixture - Zones 1, 2, 21, 22

4,000 K - 230,000 h



7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-5
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

Atex execution - Gas	II 2G - Ex eb mb IIC T4 Gb
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	Marine aluminium alloy (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 9005 Jet black
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance	7J (body) 4J (glass)
Corrosivity category	Equivalent to C5-M / C4-H
Mounting system	Pendant mounting
Ambient operating temperature	-35°C - +50°C (-40°C on request)
Ambient storage temperature	-40°C - +70°C
Actual efficacy of the device	Up to 115 lm/W
Colour temperature	4,000 K
Optics features	Non-ageing UV-resistant polycarbonate lenses sealed to the LED module by silicone resin
Colour rendering index according to EN 62717	CRI ≥ 80
Colour consistency	MacAdam 4-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L90 B10 110,000h Tq= +40°C L90 B10 230,000h Tq= +25°C
Insulation class	I
Supply voltage	110-277 Vac/110-250 Vdc: 50 W/72 W/101 W 160-277 Vac/160-250 Vdc: 144W 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

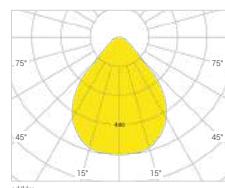
Versions with colour temperatures from 3000K to 6500K and ambient temperatures down to -40°C are also available.

TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



TIGUA-EX pendant light fixture - Zones 1, 2, 21, 22

4,000 K - 230,000 h



Symmetrical 81° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
50	6980	5808	+50		817031EX
72	9950	8280	+40		817032EX
101	13950	11615	+50	DALI	817033EX
144	19850	16560	+40		817034EX

Equipment included: double chain bracket and busbar.

Notes: recommended installation height: between 4 m and 7 m.
The stated flux and power values may be subject to a +/- 7% tolerance.

Accessories TIGUA-EX



0 - 90° adjustable connection
for catenary wire installation

Manufacturing material	Palazzoli code
galvanised steel	811921



Swivelling connection 0 - 90°
for double chain
and busbar installation

Manufacturing material	Palazzoli code
galvanised steel	811919



Kit with bracket
for ceiling installation

Manufacturing material	Palazzoli code
galvanised steel	811916



Set of brackets
for installation
with 60 mm Ø pole

Manufacturing material	Palazzoli code
galvanised steel	811920

Accessories junction boxes

TAIS-EX at page 20
on request





XTIGUA-EX pendant light fixtures - Zone 1, 2, 21, 22

4,000 K - 230,000 h



7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

- 2014/30/EU (EMC)
- 2014/34/EU (ATEX)
- 2011/65/EU (RoHS)
- 2012/19/EU (WEEE)

PRODUCT STANDARDS

- EN 55015
- EN 60079-0
- EN 60079-18
- EN 60079-31
- EN 60079-7
- EN 60598-1
- EN 60598-2-1
- EN 60598-2-5
- EN 60598-2-22
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- EN 62311
- EN 62493
- EN 62471
- IEC/TR 62778
- EN 63000

Atex execution - Gas	II 2G - Ex eb mb IIC T4 Gb
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	Marine aluminium alloy (EN 44300)
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 9005 Jet black
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance	7J (body) 4J (glass)
Corrosivity category	Equivalent to C5-M / C4-H
Mounting system	Pendant mounting
Ambient operating temperature	-35°C - +50°C (-40°C on request)
Ambient storage temperature	-40°C - +70°C
Actual efficacy of the device	Up to 115 lm/W
Colour temperature	4,000 K
Optics features	Non-ageing UV-resistant polycarbonate lenses sealed to the LED module by silicone resin
Colour rendering index according to EN 62717	CRI ≥ 80
Colour consistency	MacAdam 4-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L90 B10 110,000h Tq= +40°C L90 B10 230,000h Tq= +25°C
Insulation class	I
Supply voltage	160-277 Vac/160-250 Vdc 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm

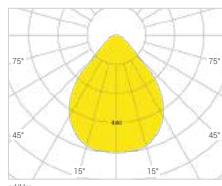
Versions with colour temperatures from 3000K to 6500K and ambient temperatures down to -40°C are also available.

TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



XTIGUA-EX pendant light fixtures - Zone 1, 2, 21, 22

4,000 K - 230,000 h



Symmetrical 81° extra wide beam optics

Power (W)	Nominal flux (lm) Tj=25 °C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
151	20900	17365	+45		818031EX
216	29800	24840	+40		818032EX
201	27800	23115	+35	DALI	818033EX
288	39800	33120	+30		818034EX

Equipment included: double chain bracket and busbar.

Notes: recommended installation height: between 9 m and 15 m.
The stated flux and power values may be subject to a +/- 7% tolerance.



Adjustable connection 0 - 90°
for double chain installation

Manufacturing material	Palazzoli code
galvanised steel	819994

XTIGUA-EX

illuminates the Marcegaglia factory in Ravenna in Italy





META₁₅₀-EX pendant light fixture - Zones 2, 21, 22

4,000 K - 230,000 h



Atex execution - Gas	II 3G - Ex ec mc IIC T5 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	Aluminium alloy (EN 46100)
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 9005 Jet black
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance	7J (body) 4J (glass)
Corrosivity category	Equivalent to C4-M / C3-H
Mounting system	Pendant mounting
Ambient operating temperature	-35°C - +40°C (-40°C - +50°C on request)
Ambient storage temperature	-40°C - +70°C
Actual efficacy of the device	Up to 148 lm/W
Colour temperature	4,000 K
Optics features	Non-aging UV-resistant polycarbonate lenses with > 90% efficiency and > 95% transparency
Colour rendering index according to EN 62717	CRI ≥ 80
Colour consistency	MacAdam 3-step
Photobiological risk	RGO - Exempt Group (EN 62471)
Residual flicker	< 4%
Luminous flux maintenance	L90 B10 110,000h Tq= +40°C L90 B10 230,000h Tq= +25°C
Insulation class	I
Supply voltage	220 V-240 V 60 W 110-277 Vac/110-250 Vdc: 97W 160-277 Vac/160-250 Vdc: 112 W/134 W 0/50/60Hz
Surge protection	6 kV common mode and differential mode (IEC 61000-4-5)
Power factor	≥ 0.95
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm ²
Entry cable diameter	10 - 14 mm

7

YEARS OF WARRANTY

2 YEARS OPTIONALLY EXTENDABLE TO 7



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC/TR 62778
EN 63000

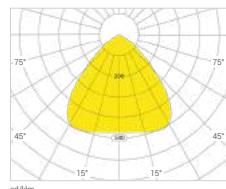
Versions with colour temperatures from 3000K to 6500K and ambient temperatures up to +50 °C are also available.

TAIS-EX series junction boxes certified for zone 1, 2, 21, 22 complete with cable glands and terminals for larger cable diameters and/or in/out solutions are available at page 20, on request.



META₁₅₀-EX pendant light fixture - Zones 2, 21, 22

4,000 K - 230,000 h

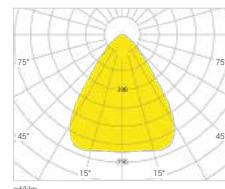


Extra wide beam optics, comfort 90°

Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
60	10296	8748	+50	on-off	810430EX
97	17227	14356			810440EX
112	20300	16576	+40	DALI	810450EX
134	24200	19832			810460EX

Equipment included: quick connection for pendant mounting.

Notes: recommended installation height: between 5 m and 8 m.
The stated flux and power values may be subject to a +/- 7% tolerance.



75° medium beam optics

Power (W)	Nominal flux (lm) Tj=25°C	Output flux (lm) Tq=25 °C	Max. ambient temperature (°C)	Version	Palazzoli code
60	10296	8580	+50	on-off	810431EX
97	17227	14065			810441EX
112	20300	16352	+40	DALI	810451EX
134	24200	19564			810461EX

Equipment included: quick connection for pendant mounting.

Notes: recommended installation height: between 5 m and 8 m.
The stated flux and power values may be subject to a +/- 7% tolerance.

Accessories META₁₅₀-EX



Adjustable bracket
for wall installation
poles and light towers

Manufacturing material	Palazzoli code
galvanised steel	810999



0-90° swivelling attachment
for double chain
and busbar installation

Manufacturing material	Palazzoli code
galvanised steel	810996



Bracket
for ceiling installation

Manufacturing material	Palazzoli code
galvanised steel	810998



Catenary wire installation bracket
0-90° adjustable

Manufacturing material	Palazzoli code
galvanised steel	810994



Bracket
for double chain
and busbar installation

Manufacturing material	Palazzoli code
galvanised steel	810997



Bracket
for installation
with Ø 60 mm pole

Manufacturing material	Palazzoli code
galvanised steel	810995

Accessories junction boxes TAIS-EX at page 20 on request





RINO-EX fluorescent - Zones 1, 2, 21, 22



Atex execution - Gas	II 2G - Ex e mb IIC T4 Gb
Atex execution - Dust	II 2D - Ex tb IIIC T 70°C Db
Body material	AISI 304 stainless steel
Surface treatment	Natural finish
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance	7J (body) 4J (glass)
Corrosivity category	Equivalent to C5-H
Mounting system	Provided with 2 M8 threaded holes
Ambient operating temperature	-40°C - +55°C
Ambient storage temperature	-40°C - +70°C
Lamp holder type	G13 T8 preventing the unhooking
Insulation class	I
Supply voltage	110V - 230V - 240V 0/50/60Hz
Power factor	> 0.97
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	1 - 2.5 mm²
Entry cable diameter	10 - 14 mm



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-18
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 63000



RINO-EX fluorescent - Zones 1, 2, 21, 22



Light fixtures
in AISI 304 stainless steel

Length (mm)	Power (W)	Tube type	Max. ambient temperature (°C)	Reflector	Version	Palazzoli code
690	1x18		+55	white	on-off	822181EX
	2x18					822182EX
1300	1x36	T8				822281EX
	2x36					822282EX

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.

Accessories RINO-EX fluorescent



Pair of adjustable supports
for wall or ceiling installation

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820010



Pairs of hooks
for pendant mounting

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820011



Pair of collars
for mounting steel light fixtures
on tube

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820016



Pairs of "V" supports
for ceiling installation

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820017



Pendant mounting
and ceiling adaptation kit

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820018

Notes: in the case of relamping, the adapter kit enables to adjust the fixing distances of the light fixture to those already present in the system.



Quick fastening kit
for ceiling mounting

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820019



RINO-EX fluorescent - Zones 2, 21, 22



Atex execution - Gas	II 3G - Ex nA IIC T4 Gc
Atex execution - Dust	II 2D - Ex tb IIIC T 85°C Db
Body material	AISI 304 stainless steel
Surface treatment	Natural finish
Diffuser material	Extra clear tempered glass
Protection rating	IP66
Impact resistance	7J (body) 4J (glass)
Corrosivity category	Equivalent to C5-H
Mounting system	Pair of AISI 304 stainless steel hooks
Ambient operating temperature	-20°C - +40°C (2 tubes) -20°C - +50°C (1 tube)
Ambient storage temperature	-40°C - +70°C
Lamp holder type	G13 T8
Insulation class	I
Rated voltage	230V 50/60Hz
Power factor	> 0.90
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	2.5 mm²
Entry cable diameter	10 - 14 mm



DIRECTIVES

2014/30/EU (EMC)
2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

EN 55015
EN 60079-0
EN 60079-15
EN 60079-31
EN 60079-7
EN 60598-1
EN 60598-2-1
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 63000



RINO-EX fluorescent - Zones 2, 21, 22



Light fixtures
in AISI 304 stainless steel

Length (mm)	Power (W)	Tube type	Max. ambient temperature (°C)	Reflector	Version	Palazzoli code
690	1x18	T8	+50	white	on-off	822131EX
	2x18		+40			822132EX
1300	1x36	T8	+50			822231EX
	2x36		+40			822232EX

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

Features: fluorescent tubes are not included.

Accessories RINO-EX fluorescent



Pairs of hooks
for pendant mounting

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820001



Pair of adjustable supports
for wall and ceiling installation

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820000



Pair of collars
for installation on pipe

Manufacturing material	Palazzoli code
AISI 304 stainless steel	820006



Accessories junction boxes
TAIS-EX at page 20
on request



RINO-EX E27 - Zone 22



Atex execution - Dust	II 3D - Ex tc IIIC T 75°C Dc
Body material	Aluminium alloy
Surface treatment	Fluorozirconate passivation
Surface finish	Non-toxic polyester, anti UV, kiln-polymerised coating
Colour	RAL 7035 Light grey (body) RAL 2011 Deep orange (cage)
Diffuser material	Prismatic tempered glass
Protection rating	IP65
Impact resistance	7J (body) 4J (glass)
Corrosivity category	Equivalent to C4-M / C3-H
Mounting system	Ready for wall installation
Ambient operating temperature	-20°C - +40°C
Ambient storage temperature	-40°C - +70°C
Lamp holder type	E27 porcelain
Insulation class	I
Rated voltage	230V 50/60Hz
Power factor	> 0.90
Type of power supply	Spring clamps and M20 cable gland
Max. conductor cross-section	2.5 mm²
Entry cable diameter	10 - 14 mm



DIRECTIVES

2014/34/EU (ATEX)
2011/65/EU (RoHS)
2012/19/EU (WEEE)

PRODUCT STANDARDS

EN 60079-0
EN 60079-31
EN 60598-1
EN 60598-2-1
EN 63000



RINO-EX E27 - Zone 22



Oval light fixtures
in aluminium alloy

Power (W)	Dimensions (W)	Lamp holder type	Max. ambient temperature (°C)	No. of entries	Version	Palazzoli code
18	119x112					831072EX
28	226x130	E27	+40	1	with steel cage	831172EX
53	295x170					831272EX

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



Round light fixture
in aluminium alloy

Power (W)	Dimensions (W)	Lamp holder type	Max. ambient temperature (°C)	No. of entries	Version	Palazzoli code
28	200x182	E27	+40	1	with steel cage	830072EX

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

RINO-EX

illuminates the technical premises of Esselunga in Milan





MARKING

CE marking is mandatory and must be affixed to any equipment, assembly or protection system (excluding components) before it is placed on the market or put into service. The manufacturer affixes the CE marking on the product that complies with the directive, in accordance with the following indications:

CE EU mark + identification number of the Notified Body responsible for supervision + Ex + Group + Category

For example: CE0051 Ex II 2GD

As regards Category 3, as no intervention of a notified body is envisaged and therefore no CE type testing is required, nor production supervision, the marking will be as follows:

CE EU mark + Ex + Group + Category

For example: CE Ex II 3G

The purpose of marking is to inform those that purchase, install, use, maintain, check, etc., that the device has been constructed in compliance with the essential safety requirements, to the level established by the category.

In order to install equipment (whether electrical or not) in a potentially explosive area, it is necessary and sufficient that it is marked as above. This means that electrical and non-electrical products which do not comply with the harmonised standards (e.g. Ex constructions) may be installed while still compliant with the law and with explosion protection principles.

In this case the equipment will be marked as shown in the examples above.

If, on the other hand, equipment (e.g. electrical equipment) is installed that is compliant with the directive as a consequence of the conformity with harmonised standards, i.e. Ex electrical equipment that are consequently presumed to comply with the Essential Safety Requirements, the ATEX marking requirements must be affixed in accordance with the following indications:

EU mark CE+ identification number of the Notified Body responsible for supervision + Ex + Group + Category + Ex mark

Example 1: CE0051 Ex II 2G Ex de IIC T5 Gb

Example 2: CE0051 Ex II 2D Ex tb IIIC T 100°C Db IP66

Example 3: CE Ex II 3G Ex nR IIC T6 Gc

A complete marking of an Ex electrical equipment, in conformity with directive 94/9/EC, must show the following:

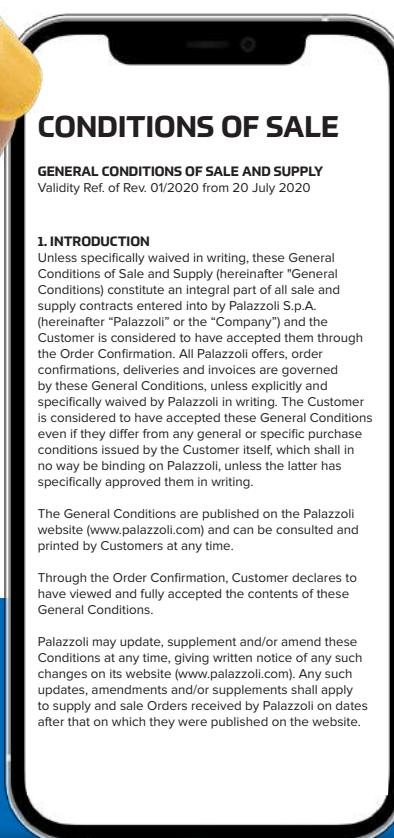
ABCD SpA, Via Moro 2, Milan (manufacturer's name and address)
MRT - 1234 - 2004 (type, serial or batch number, year)
CE0051 (CE mark, identification number of the Notified Body responsible for manufacturing supervision)
Ex II 2G (group, category)
Ex d IIB T4 Gb (protection method, gas group, EPL temperature class)
CESI 02 ATEX 0999 (CE type test certificate number)
Characteristic parameters (supply voltage, frequency, etc.)



GENERAL TERMS AND CONDITIONS OF SALE AND SUPPLY



To view the terms
and conditions
of the contracts
scan the QR code.



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to coordination by LMH S.r.l.

Palazzoli

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VAT 03316260177
Brescia Chamber of Commerce REA no. 356562
Brescia Register of Companies no. 04452750484
Mechanised processing code BS 058237
Share Capital 5,096,000 Euro fully paid-up
IQNET ISO 9001:2008



Ambassadors of Made in Italy

Customer focused operations

Smart engineering

Top Manufacture

Service excellence



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SISTEMI ELETTRICI E LUCE D'AUTORE