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ATEX Section



PLUGS AND INTERLOCKED SOCKET-OUTLETS



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328



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CLASSIFICATION OF ATEX SERIES DEVICES

CEE-Ex plugs

| |
|---------------------------|
| 477203EX |
| 477213EX |
| 477223EX |
| 477303EX |
| 477313EX |
| 477323EX |
| 477403EX |
| 477413EX |
| 477423EX |
| 477513EX |
| 477523EX |
| 477216EX II 3G Ex nA T6 X |
| 477226EX |
| 477306EX II 2D Ex tD A21 |
| 477316EX IP66/IP67 T65°C |
| 477416EX |
| 477426EX |
| 477516EX |
| 477317EX |
| 477417EX |
| 477427EX |
| 477517EX |
| 477318EX |
| 249538EX |
| 259538EX |
| 249550EX |

ULYSSE-EX Series

| |
|---------------------------|
| 400124EX |
| 400134EX |
| 400144EX |
| 400126EX |
| 400139EX II 3G Ex nR T6 X |
| 400149EX |
| 400129EX II2D Ex tD A21 |
| 400136EX IP66/IP67 T80°C |
| 400146EX |
| 400137EX |
| 400147EX |
| 400234EX |
| 400244EX |
| 400226EX II 3G Ex nR T6 X |
| 400239EX |
| 400236EX II2D Ex tD A21 |
| 400246EX IP66/IP67 T90°C |
| 400237EX |
| 400339EX II 3G Ex nR T6 X |
| 400336EX |
| 400346EX II2D Ex tD A21 |
| 400337EX IP66/IP67 T110°C |
| 404124EX |
| 404134EX |
| 404144EX |
| 404126EX |
| 404139EX II2D Ex tD A21 |
| 404149EX IP66/IP67 T80°C |
| 404129EX |
| 404136EX |
| 404146EX |
| 404234EX |
| 404244EX |
| 404226EX II2D Ex tD A21 |
| 404239EX IP66/IP67 T90°C |
| 404236EX |
| 404246EX |
| 404339EX |
| 404336EX II2D Ex tD A21 |
| 404346EX IP66/IP67 T110°C |
| 403124EX |
| 403134EX II 3G Ex nR T6 X |
| 403144EX |
| 403126EX II2D Ex tD A21 |
| 403139EX IP66/IP67 T85°C |

| |
|---------------------------|
| 403149EX |
| 403129EX |
| 403136EX |
| 403146EX |
| 403234EX II 3G Ex nR T6 X |
| 403244EX |
| 403226EX II2D Ex tD A21 |
| 403239EX IP66/IP67 T85°C |
| 403236EX |
| 403246EX |
| 403339EX |
| 408126EX |
| 408136EX II 3G Ex nR T6 X |
| 408146EX |
| 408226EX II2D Ex tD A21 |
| 408236EX IP66/IP67 T80°C |
| 408246EX |
| 408336EX II 3G Ex nR T6 X |
| 408346EX |
| II2D Ex tD A21 |
| IP66/IP67 T85°C |
| 415001EX II 3G Ex nR T6 X |
| 415002EX |
| II2D Ex tD A21 |
| IP66/IP67 T75°C |
| 415000EX II 3G Ex nA T6 |

TAIS-Ex Series

| |
|---------------------------|
| 472610EX |
| 472710EX |
| 472810EX |
| 472620EX |
| 472720EX |
| 472820EX |
| 472630EX |
| 472730EX |
| 472830EX |
| 472750EX II 3G Ex nR T6 X |
| 472840EX |
| 472711EX II2D Ex tD A21 |
| 472811EX IP66/IP67 T80°C |
| 472621EX |
| 472721EX |
| 472731EX |
| 472831EX |
| 472751EX |
| 472722EX |
| 472732EX |
| 472832EX |
| 472752EX |
| 464210EX |
| 464310EX |
| 464410EX |
| 464220EX |
| 464320EX |
| 464420EX |
| 464230EX |
| 464330EX |
| 464430EX II2D Ex tD A21 |
| 464711EX IP66/IP67 T85°C |
| 464811EX |
| 464621EX |
| 464721EX |
| 464731EX |
| 464831EX |
| 464722EX |
| 464732EX |
| 464832EX |
| 474210EX |
| 474310EX II3G Ex nR T6 X |
| 474410EX |
| 474220EX II2D Ex tD A21 |
| 474320EX IP66/IP67 T85°C |
| 474420EX |

| |
|---------------------------|
| 474230EX |
| 474330EX |
| 474430EX |
| 474711EX |
| 474811EX II3G Ex nR T6 X |
| 474621EX |
| 474721EX II2D Ex tD A21 |
| 474731EX IP66/IP67 T85°C |
| 474831EX |
| 474722EX |
| 474732EX |
| 474832EX |
| 470126EX |
| 470136EX |
| 470146EX II 3G Ex nR T6 X |
| 470226EX |
| 470236EX II 2D Ex tD A21 |
| 470246EX IP66/IP67 T90°C |
| 470336EX |
| 470346EX |
| 532026EX |
| 532667EX II 3G Ex nR T6 X |
| 532618EX |
| 532628EX II2D Ex tD A21 |
| 532619EX IP66/IP67 T75°C |
| 532620EX |

ALUPRES-Ex Series

| |
|---------------------------|
| 472233EX |
| 472243EX |
| 472253EX |
| 472333EX |
| 472343EX |
| 472353EX |
| 472433EX |
| 472443EX |
| 472453EX |
| 472543EX |
| 472553EX |
| 472246EX II 3G Ex nR T6 X |
| 472256EX |
| 472336EX II 2D Ex tD A21 |
| 472346EX IP66/IP67 T85°C |
| 472446EX |
| 472456EX |
| 472546EX |
| 472347EX |
| 472447EX |
| 472457EX |
| 472547EX |
| 472348EX |
| 472418EX |
| 472428EX |
| 472518EX |
| 511914EX |
| 511915EX II 3G Ex nR T6 X |
| 511916EX |
| 511918EX II2D Ex tD A21 |
| 511919EX IP66/IP67 T75°C |
| 511932EX |

TAIS-MIGNON-Ex enclosures

| |
|---------------------------|
| 101021EX |
| 101031EX |
| 101041EX |
| 101061EX |
| 101151EX II 3G Ex nA T6 X |
| 101161EX |
| 101081EX II 2D Ex tD A21 |
| 101096EX IP66/IP67 T60°C |
| 101025EX |
| 101035EX |
| 101045EX |
| 101156EX |

| |
|---------------------------|
| 101157EX II 3G Ex nA T6 X |
| II 2D Ex tD A21 |
| IP66/IP67 T60°C |

| |
|---------------------------|
| 532035EX |
| 532045EX |
| 532055EX |
| 532116EX |
| 532117EX II 3G Ex nR T6 X |
| 532118EX |
| 532005EX II 2D Ex tD A21 |
| 532006EX IP66/IP67 T60°C |
| 532015EX |
| 532016EX |
| 532017EX |
| 532018EX |

CONTACT-Ex Series

| |
|---------------------------|
| 532725EX |
| 532735EX |
| 532745EX |
| 532747EX |
| 532748EX |
| 532755EX |
| 532765EX |
| 532768EX |
| 159030EX |
| 159032EX |
| 159033EX |
| 159034EX II 3G Ex nA T6 X |
| 159035EX |
| 159036EX |
| 159037EX |
| 159040EX |
| 159042EX |
| 159043EX |
| 159044EX |
| 159045EX |
| 159046EX |
| 112094EX |
| 113094EX |

TAIS-Ex enclosures

| |
|---------------------------|
| 531911EX |
| 531931EX II 3G Ex nR T6 X |
| 531940EX |
| 531942EX II 2D Ex tD A21 |
| 531962EX IP66/IP67 T60°C |

RONDO'-Ex enclosures

| |
|-------------------------------------|
| 112020EX |
| 112030EX |
| 112040EX II 3G Ex nA T6 X |
| 112020EX II 3D Ex tD A22 IP54 T60°C |
| 113030EX |
| 113040EX |

ALUPRES-Ex enclosures

| |
|---------------------------|
| 511910EX |
| 511911EX |
| 511912EX |
| 511913EX |
| 150021EX |
| 511917EX |
| 511920EX II 3G Ex nR T6 X |
| 511921EX |
| 511922EX II 2D Ex tD A21 |
| 511923EX IP66/IP67 T60°C |
| 511924EX |
| 511925EX |
| 511926EX |
| 511927EX |
| 511928EX |
| 511929EX |



Continuous update to Technical standards on palazzoli.com website

511930EX II 3G Ex nR T6 X
511931EX II 2D Ex tD A21
IP66/IP67 T60°C

UNI-Ex cable glands

571007EX
571009EX
571011EX
571013EX
571016EX
571021EX
571029EX
571036EX
571042EX
571048EX
571107EX
571109EX
571111EX
571113EX
571116EX
571121EX
571129EX
571136EX
571142EX
571148EX
581012EX
581016EX II 2G Ex e II T6
581020EX II 2D Ex tD A21 IP68 T6
581025EX
581032EX
581040EX
581050EX
581063EX
581112EX
581116EX
581120EX
581125EX
581132EX
581140EX
581150EX
581163EX
582112EX
582116EX
582120EX
582125EX
582132EX
582140EX
582150EX
582163EX
580242EX
580243EX
580244EX
580203EX
580232EX
580233EX
580234EX II 3G Ex nA T6
580051EX
580052EX
580054EX
590002EX
590004EX
590032EX

CAM-Ex Series

292101EX
292102EX II 3G Ex nR T6 X
292103EX
292201EX II 2D tD A21
IP66/IP67 T60°C
292202EX
292203EX
292301EX II 3G Ex nR T6 X
292302EX
292303EX II 2D tD A21
IP66/IP67 T70°C

292411EX II 3G Ex nR T6 X
292412EX
292413EX II 2D tD A21
IP66/IP67 T80°C

292503EX II 3G Ex nR T6 X
292603EX
292623EX II 2D tD A21
292703EX IP66/IP67 T70°C
292733EX

272141EX
272142EX
272143EX
272144EX
272241EX II 3G Ex nR T6 X
272242EX
272243EX II 2D tD A21
272244EX IP66/IP67 T70°C

272301EX
272302EX
272303EX
272304EX
282402EX II 3G Ex nR T6 X
282403EX
282404EX II 2D tD A21
IP66/IP67 T80°C

272502EX II 3G Ex nR T6 X
272503EX
282603EX II 2D tD A21
IP66/IP67 T70°C

272146EX
272147EX II 3G Ex nR T6 X
272246EX
272247EX II 2D tD A21
IP66/IP67 T70°C
272306EX
272307EX
282406EX II 3G Ex nR T6 X
282407EX

II 2D tD A21
IP66/IP67 T80°C
272507EX II 3G Ex nR T6 X
II 2D tD A21
IP66/IP67 T70°C

ALARM-Ex Series

900453EX
900463EX II 3G Ex nA T6 X
900473EX
900253EX II 2D Ex tD A21
900263EX IP66 T65°C X
900273EX

TAIS-MIGNON-Ex devices

202271EX
202261EX
202262EX
202282EX
202283EX
202276EX II 3G Ex nR T6 X
202266EX
202275EX II 2D Ex tD A21
IP66/IP67 T60°C
202265EX

261435EX
261403EX
261445EX
261413EX
261433EX

800061EX II 3G Ex nA T6 X
800062EX
800064EX II 2D Ex tD A21
IP66/IP67 T90°C
800063EX

201151EX II 3G Ex nA T6 X
201152EX
201162EX II 3D Ex tD A22
IP65 T60°C
201156EX

201166EX II 3G Ex nA T6 X
201155EX
261021EX II 3D Ex tD A22
IP65 T60°C

800121EX II 3G Ex nA T6 X
800122EX
800123EX II 3D Ex tD A22
IP66/IP67 T90°C

RINO-Ex Series

831072EX
831172EX II 3G Ex nA T4 X
831192EX
831275EX II 2D Ex tD A21
831295EX IP65 T130°C
831954EX
830072EX

822101EX
822102EX
822103EX
822201EX II 3G Ex nA T4 X
822202EX II 2D Ex tD A21
822203EX IP66 T130°C
820102EX
820202EX

820132EX
820232EX
822961EX II 3G Ex nA T4 X
822962EX
II 2D Ex tD A21
IP66 T100°C

822211EX II 3G Ex nA T5 X
820111EX
820211EX II 2D Ex tD A21
IP66 T85°C



Palazzoli A practical guide to classifying potentially explosive areas is available, written in compliance with European Directives 94/9/EC and 99/92/EC. It can be downloaded from the website www.palazzoli.com



CEE-EX

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Plugs IP66 / IP67

CEE-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



CEE-EX SERIES

ATEX low voltage watertight
straight plugs
IP66 / IP67

| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|----------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 16 (2D-3G) | 50-60Hz | 110V | Yellow | 2P+⊕ | 4 | 477203EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 477213EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 477223EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 477303EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 477313EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+⊕ | 9 | 477323EX | 1 |
| | 50-60Hz | 400V | Red | 2P+⊕ | 9 | 477403EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 477413EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 477423EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 477513EX | 1 |
| | 50-60Hz | 500V | Black | 3P+N+⊕ | 7 | 477523EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 477216EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 477226EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 477306EX | 1 |
| 32 (2D-3G) | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 477316EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 477416EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 477426EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 477516EX | 1 |



CEE-EX SERIES

ATEX low voltage watertight
straight plugs
IP66 / IP67

| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-----------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 63 (2D-3G) | 50-60Hz | 230V | Blue | 2P+⊕ | 9 | 477317EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 477417EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 477427EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 477517EX | 1 |
| 125 (2D-3G) | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 477318EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 249538EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 259538EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 249550EX | 1 |

Characteristics:

nickel-plated and rounded pins with easy insertion. Non-slip grip. 32A and 63A monobloc plugs, 32A and 125A plugs with two-screw terminals. Very thick body and grip in anti-tracking, antistatic and self-extinguishing resin GWT: 850°C - UL94:V2. Captive gaskets in non-ageing elastomer.

Uses:

suitable for frequent uses where there are risks of impacts, squashing, vibrations, chemical agents, liquids and dust.

COMPATIBILITY OF CEE-EX PLUGS AND INTERLOCKED SOCKET-OUTLETS

| CEE-Ex plugs | ULYSSE-Ex Protection | | | | TAIS-Ex Protection | | | | ALUPRES-Ex Protection |
|----------------|----------------------|------------------------------|-------------|----------------------|----------------------|------------------------------|-------------|----------------------|-----------------------|
| | Fuses | MCB specifications for dusts | MCB | Direct power supply | Fuses | MCB specifications for dusts | MCB | Direct power supply | Fuses |
| 16 (2D-3G) | 16A (2D) 10A (3G) | 16A (2D) | 10A (2D-3G) | 16A (2D) 12A (3G) | 16A (2D) 10A (3G) | 16A (2D) | 10A (2D-3G) | 16A (2D) 12A (3G) | 16A (2D) 10A (3G) |
| 32 (2D-3G) | 32A (2D) 16A (3G) | 32A (2D) | 16A (2D-3G) | 32A (2D) 25A (3G) | 32A (2D) 16A (3G) | 32A (2D) | 16A (2D-3G) | 32A (2D) 25A (3G) | 32A (2D) 16A (3G) |
| 63 (2D-3G) | 63A (2D) 32A (3G) | 63A (2D) | 32A (2D-3G) | 63A (2D) 50A (3G) | 63A (2D) 32A (3G) | 63A (2D) | 32A (2D-3G) | 63A (2D) 50A (3G) | 40A (2D-3G) |
| 125 (2D-3G) | | | | | | | | | 80A (2D-3G) |

Explosion Proof





ULYSSE-EX

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In thermosetting material IP66 / IP67



TAIS-EX

297

In thermosetting material IP66 / IP67



ALUPRES-EX

301

In aluminium IP66 / IP67

THE TECHNIQUE



ULYSSE-EX SERIES - WATERTIGHT INTERLOCKED SOCKET-OUTLETS IN THERMOSETTING MATERIAL FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

This is an advanced and patented system of interlocked socket-outlets used for making superior performance distribution boards. The range consists of 16A, 32A and 63A interlocked socket-outlets, blind watertight enclosures and quick attachment mounting plates for rapidly making distribution boards. The interlock is not only a system for protecting people against shocks and opening arcs, but it performs a fundamental function against the trigger of an explosion by preventing sparks when plugs and sockets are connected. The interlock mechanism provides a better guarantee against breakage and wear and offers greater safety. The interlock switch, isolated in a restricted breathing enclosure, is in the AC23 and AC3 category with Icc up to 10 kA and permits direct control of the motors. As well as the IEC EN50021 Standard that governs Ex n electrical construction, the interlocked socket-outlets comply with the IEC EN60309, IEC EN60947, IEC EN60742 Standards.

THE ADVANTAGES



ZONE 2 GAS ZONE 21 AND 22 DUSTS

The ULYSSE-EX system is certified by the European Certification Consortium which guarantees its use in potentially explosive atmospheres due to gas, combustible and electrically conductive dusts.



Made of reinforced thermosetting material, these "indestructible" products have been designed for outdoor installations (GWT 960°C - 20J). Their reinforced geometry ensures a very robust form, insulating resistance, outstanding resistance to extremes of heat and fire, as well as to chemical agents, humidity, the prolonged action of UV rays and atmospheric agents. The indeformability to the most extreme temperature changes ensures that restricted breathing features are maintained even for outdoor fittings in difficult atmospheres.



WEATHERPROOF

This unique model with IP66/IP67 double protection rating, guarantees resistance against violent jets of water (IP66) and accidental immersions (IP67).



ERGONOMIC CONTROL

Both design and experience have led to a new semi-spherical control which is easily operated using gloves and can be padlocked in position 0 and 1.

ULYSSE-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



ULYSSE-EX SERIES

ATEX wall-mounted interlocked socket-outlets with fuse-holder base in insulating modular enclosure made of thermosetting material with double protection rating - IP66 / IP67



| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 16A (2D) | 50-60Hz | 110V | Yellow | 2P+⊕ | 4 | 400124EX | 1 |
| 10A (3G) | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 400134EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 400144EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 400126EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 400139EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+⊕ | 9 | 400149EX | 1 |
| | 50-60Hz | 400V | Red | 2P+⊕ | 9 | 400129EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 400136EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 400146EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 400137EX | 1 |
| | 50-60Hz | 500V | Black | 3P+N+⊕ | 7 | 400147EX | 1 |
| 32A (2D) | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 400234EX | 1 |
| 16A (3G) | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 400244EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 400226EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 400239EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 400236EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 400246EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 400237EX | 1 |

Equipment: with Pg 29 cable gland.

Characteristics: fittings in non-sparking, non-loosening, closed fuse-holders with interlock which blocks replacement when power is on. Only use 10,3x38 fuses for 16A socket-outlets, 14x51 for 32A socket-outlets and 22x58 for 63A socket-outlets (fuses not supplied). Fuses with higher or lower In than socket-outlet In cannot guarantee correct protection and can cause overheating. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected.

Complementary items: straight plugs on page 289.



ULYSSE-EX SERIES

ATEX wall-mounted interlocked socket-outlets with fuse-holder base in insulating modular enclosure made of thermosetting material with double protection rating - IP66 / IP67



| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 63A (2D) | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 400339EX | 1 |
| 32A (3G) | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 400336EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 400346EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 400337EX | 1 |

INTERLOCKED SOCKET-OUTLETS



ULYSSE-EX SERIES

ATEX wall-mounted socket-outlets with MCB and mechanical interlock, for combustible and electrically conductive dusts IP66 / IP67



| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 16A (2D) | 50-60Hz | 110V | Yellow | 2P+⊥ | 4 | 404124EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+⊥ | 4 | 404134EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊥ | 4 | 404144EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊥ | 6 | 404126EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊥ | 9 | 404139EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+⊥ | 9 | 404149EX | 1 |
| | 50-60Hz | 400V | Red | 2P+⊥ | 9 | 404129EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 404136EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 404146EX | 1 |
| 32A (2D) | 50-60Hz | 110V | Yellow | 3P+⊥ | 4 | 404234EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊥ | 4 | 404244EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊥ | 6 | 404226EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊥ | 9 | 404239EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 404236EX | 1 |
| 63A (2D) | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 404246EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊥ | 9 | 404339EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 404336EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 404346EX | 1 |

Equipment:

supplied with Pg 29 cable gland.

Characteristics:

corrosion resistant non-loosening terminals. Anti-tracking, anti-static and self-extinguishing resin body GWT: 850°C - UL94:V2. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected.

Uses:

only use with EEx nA plugs in this catalogue.

Complementary items:

straight plugs on page 289.



ULYSSE-EX SERIES

ATEX wall-mounted socket-outlets with MCB and mechanical interlock, in insulating modular enclosure made of thermosetting material with double protection rating IP66 / IP67



| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|--------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 10A (2D-3G) | 50-60Hz | 110V | Yellow | 2P+⊥ | 4 | 403124EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+⊥ | 4 | 403134EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊥ | 4 | 403144EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊥ | 6 | 403126EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊥ | 9 | 403139EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+⊥ | 9 | 403149EX | 1 |
| | 50-60Hz | 400V | Red | 2P+⊥ | 9 | 403129EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 403136EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 403146EX | 1 |
| 16A (2D-3G) | 50-60Hz | 110V | Yellow | 3P+⊥ | 4 | 403234EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊥ | 4 | 403244EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊥ | 6 | 403226EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊥ | 9 | 403239EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 403236EX | 1 |
| 32A (2D-3G) | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 403246EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊥ | 9 | 403339EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 403336EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 403346EX | 1 |



ULYSSE-EX SERIES

ATEX wall-mounted interlocked socket-outlets, in insulating modular enclosure made of thermosetting material with double protection rating - IP66 / IP67



| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 16A (2D) | 50-60Hz | 230V | Blue | 2P+⊥ | 6 | 408126EX | 1 |
| 12A (3G) | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 408136EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 408146EX | 1 |
| 32A (2D) | 50-60Hz | 230V | Blue | 2P+⊥ | 6 | 408226EX | 1 |
| 25A (3G) | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 408236EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 408246EX | 1 |
| 63A (2D) | 50-60Hz | 400V | Red | 3P+⊥ | 6 | 408336EX | 1 |
| 50A (3G) | 50-60Hz | 400V | Red | 3P+N+⊥ | 6 | 408346EX | 1 |



ULYSSE-EX SERIES

ATEX enclosures with blind cover, in thermosetting material with double protection rating IP66 / IP67

| External dimensions (mm) | Available power (W) | No. lower entries | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-------------------|-----------------|-----------|
| 125x175x128 | 14 | 1-Pg 21 | 415001EX | 1 |
| 250x175x128 | 20 | 2-Pg 21 | 415002EX | 1 |

Equipment:

coupling fitting.
Gaskets for interlocked socket-outlets.

Characteristics:

EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure. For this purpose, consider the power dissipated from each type of connection.



ULYSSE SERIES

Support plate in thermosetting material for making distribution boards

| Dimensions (mm) | No. of installable devices | Palazzoli Code | Pack Q.ty |
|-----------------|----------------------------|----------------|-----------|
| 125x540 | 1 (16A-32A) | 415801 | 1 |
| 250x540 | 2 (16A-32A) - 1 (63A) | 415802 | 1 |

Equipment:

built-in threaded metal dowels, supplied with screws and relative stainless steel washers for device fastening.

Complementary items:

coupling piece code 538791 on page 283.



ULYSSE SERIES

EN50022 rail for fastening modular devices in the enclosures with a blind cover

| For enclosures with dimensions (mm) | No. of modules EN50022 | Palazzoli Code | Pack Q.ty |
|-------------------------------------|------------------------|----------------|-----------|
| 125x175x128 | 5 | 415011 | 1 |
| 250x175x128 | 12 | 415012 | 1 |

Uses:

for fastening modular devices (eg. supply/junction terminal blocks).



ULYSSE SERIES

ATEX kit with fitting for coupling the enclosures

| Fitting diameter | Assembly hole (mm) | Palazzoli Code | Pack Q.ty |
|------------------|--------------------|-----------------|-----------|
| Pg21 | 38 | 415000EX | 1 |

Uses:

the distribution board can be made by side coupling the boxes.

THE TECHNIQUE



TAIS-Ex SERIES - WATERTIGHT INTERLOCKED SOCKET-OUTLETS IN THERMOSETTING MATERIAL FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

This is the most complete series of interlocked socket-outlets in reinforced thermosetting material used for making heavy duty distribution boards. It's presently the most comprehensive range, consisting of 16A, 32A and 63A interlocked socket-outlets, watertight blind enclosures and mounting plates for making highly customised distribution boards. The interlock is not only a system for protecting people against shocks and opening arcs, but it performs a fundamental function against the trigger of an explosion by preventing sparks when plugs and socket-outlets are connected. The interlock switch, isolated in a restricted breathing enclosure, is in the AC23 and AC3 category with Icc up to 10 kA and permits the direct control of the motors.

As well as the IEC EN50021 Standard that governs Ex n electrical constructions, the interlocked socket-outlets comply with the IEC EN60309, IEC EN60947, IEC EN60742 Standards.



Made of reinforced thermosetting material, these 'indestructible' products have been designed for outdoor

installations (GWT 960°C - 20J). Their reinforced geometry ensures a very robust form, insulating resistance, outstanding resistance to extremes of heat and fire, as well as to chemical agents, humidity, the prolonged action of UV rays and atmospheric agents. The indeformability to the most extreme temperature changes ensures that restricted breathing features are maintained even for outdoor fittings in difficult atmospheres.

THE ADVANTAGES



COMPACT

The socket-outlets with 16A fuses are only 92 mm wide, so you can install distribution boards with 2 socket-outlets on 20 cm columns.



SAFE

The ceramic fuse-holder base and GWT 960°C self-extinguishing thermosetting socket insert (for 63A and 125A) guarantee safety in extreme heat even in limited conditions.



RELIABLE

The contact-holder insert fastened on the aluminium plate supporting the bottom box guarantees mechanical reliability even when the plug has to be inserted frequently.



EASIER MAINTENANCE

The stainless steel screws are fixed into brass inserts, so that they can be unscrewed years later. The front panel is hinged onto the bottom box.

TAIS-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



TAIS-EX SERIES

ATEX wall-mounted interlocked socket-outlets with fuse-holder base in insulating modular enclosure made of thermosetting material - IP66 / IP67



SERIE TAIS-Ex

ATEX wall-mounted interlocked socket-outlets with fuse-holder base in insulating modular enclosure made of thermosetting material - IP66 / IP67



| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------------|--------|-----------------|-----------|
| 63A (2D) | 50-60Hz | 230V | Blue | 3P+ \neq | 9 | 472722EX | 1 |
| 32A (3G) | 50-60Hz | 400V | Red | 3P+ \neq | 6 | 472732EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+ \neq | 6 | 472832EX | 1 |
| | 50-60Hz | 500V | Black | 3P+ \neq | 7 | 472752EX | 1 |

| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------------|--------|-----------------|-----------|
| 16A (2D) | 50-60Hz | 110V | Yellow | 2P+ \neq | 4 | 472610EX | 1 |
| 10A (3G) | 50-60Hz | 110V | Yellow | 3P+ \neq | 4 | 472710EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+ \neq | 4 | 472810EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+ \neq | 6 | 472620EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+ \neq | 9 | 472720EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+ \neq | 9 | 472820EX | 1 |
| | 50-60Hz | 400V | Red | 2P+ \neq | 9 | 472630EX | 1 |
| | 50-60Hz | 400V | Red | 3P+ \neq | 6 | 472730EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+ \neq | 6 | 472830EX | 1 |
| | 50-60Hz | 500V | Black | 3P+ \neq | 7 | 472750EX | 1 |
| | 50-60Hz | 500V | Black | 3P+N+ \neq | 7 | 472840EX | 1 |
| 32A (2D) | 50-60Hz | 110V | Yellow | 3P+ \neq | 4 | 472711EX | 1 |
| 16A (3G) | 50-60Hz | 110V | Yellow | 3P+N+ \neq | 4 | 472811EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+ \neq | 6 | 472621EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+ \neq | 9 | 472721EX | 1 |
| | 50-60Hz | 400V | Red | 3P+ \neq | 6 | 472731EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+ \neq | 6 | 472831EX | 1 |
| | 50-60Hz | 500V | Black | 3P+ \neq | 7 | 472751EX | 1 |

Equipment: Pg 21 cable glands for 16A socket-outlets, Pg29 cable glands for 32A and 63A socket-outlets 2P+ \neq and 3P+ \neq , Pg36 for 63A socket-outlets 3P+N+ \neq .

Characteristics: fittings in non-sparking, non-loosening, closed fuse-holders with interlock which blocks replacement when power is on. Only use NDZ (E16) fuses for 16A socket-outlets, DIII (E33) for 32A and 63A socket-outlets (fuses not supplied). Fuses with higher or lower In than socket-outlet In cannot guarantee correct protection and can cause overheating. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected.

Uses: its highly compact form makes it ideal for installing in small spaces (e.g. on pillars, on machines...).

Complementary items: straight plugs on page 289.

INTERLOCKED SOCKET-OUTLETS



TAIS-Ex SERIES

Wall-mounted socket-outlets with MCB, mechanical interlock, ATEX signal lamp, for combustible and electrically conductive dusts IP66 / IP67



| Rated Current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 16A (2D) | 50-60Hz | 110V | Yellow | 2P+⊕ | 4 | 464210EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 464310EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 464410EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 464220EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 464320EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+⊕ | 9 | 464420EX | 1 |
| | 50-60Hz | 400V | Red | 2P+⊕ | 9 | 464230EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 464330EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 464430EX | 1 |
| 32A (2D) | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 464711EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 464811EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 464621EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 464721EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 464731EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 464831EX | 1 |
| 63A (2D) | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 464722EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 464732EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 464832EX | 1 |

♦ Supplied on request.

Equipment:

Pg 29 cable glands for 16A, 32A, 63A socket-outlets 2P+⊕ and 3P+⊕, Pg36 63A socket-outlets 3P+N+⊕.

Characteristics:

corrosion resistant non-loosening terminals. Anti-tracking, anti-static and self-extinguishing resin body GWT: 850°C - UL94: V2. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected.

Uses:

its highly compact form makes it ideal for installing in small spaces (e.g. on pillars, on machines...).

Complementary items:

straight plugs on page 289.



TAIS-Ex SERIES

ATEX wall-mounted socket-outlets with MCB, mechanical interlock, signal lamp, in insulating modular enclosure made of thermosetting material - IP66 / IP67



| Rated Current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|--------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 10A (2D-3G) | 50-60Hz | 110V | Yellow | 2P+⊕ | 4 | 474210EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 474310EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 474410EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 474220EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 474320EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+⊕ | 9 | 474420EX | 1 |
| | 50-60Hz | 400V | Red | 2P+⊕ | 9 | 474230EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 474330EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 474430EX | 1 |
| 16A (2D-3G) | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 474711EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 474811EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 474621EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 474721EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 474731EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 474831EX | 1 |
| 32A (2D-3G) | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 474722EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 474732EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 474832EX | 1 |

♦ Supplied on request.

TAIS-Ex SERIES

ATEX wall-mounted interlocked socket-outlets in thermosetting insulating modular enclosure IP66 / IP67



| Rated Current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|-------------------|-----------|---------------|----------------|--------|--------|-----------------|-----------|
| 16A (2D) | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 470126EX | 1 |
| 12A (3G) | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 470136EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 470146EX | 1 |
| 32A (2D) | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 470226EX | 1 |
| 25A (3G) | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 470236EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 470246EX | 1 |
| 63A (2D) | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 470336EX | 1 |
| 50A (3G) | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 470346EX | 1 |

♦ Supplied on request.



TAIS-Ex SERIES

ATEX watertight enclosures with raised cover in thermosetting material
IP66 / IP67

| External dimensions (mm) | Available power (W) | Hole type | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-----------|-----------------|-----------|
| 125x125x125 | 15 | | 532026EX | 1 |
| 185x125x125 | 12 | | 532667EX | 1 |
| 250x125x125 | 18 | | 532619EX | 1 |
| 250x125x125 | 18 | | 532620EX | 1 |
| 250x125x125 | 18 | | 532618EX | 1 |
| 250x125x125 | 18 | | 532628EX | 1 |
| 125x125x125 | 15 | | 532016EX | 1 |

Equipment:

532667EX: 1 Pg29 cable gland for entry, 2 Pg36 caps, 2 Pg 21 fittings for connecting socket-outlets.

532618EX: 1 Pg36 cable gland for entry, 2 Pg29 fittings for connecting socket-outlets.

532628EX: 1 Pg36 cable gland for entry, 1 Pg21 fitting and 1 Pg29 fitting for connecting socket-outlets.

Characteristics:

Ex n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure. For this purpose, consider the power dissipated from each type of connection.

Complementary items:

socket-outlets on page 297÷298,
cable glands on page 311,
fittings on page 311
caps on page 311
polygonal nuts on page 311.



TAIS SERIES

Mounting plates in anti-corrosion tropicalized steel plate, for watertight enclosures

| For enclosure with dimensions | For enclosure code | Palazzoli Code | Pack Q.ty |
|-------------------------------|--|----------------|-----------|
| 92x92 | 532005, 532035, 532225, 538005, 538035, 532005EX, 532035EX | 532705 | 1 |
| 125x92 | 532006, 532045, 532285, 532295, 538006, 538045, 532006EX, 532045EX | 532714 | 1 |
| 185x92 | 532015, 532055, 532325, 532385, 538015, 538055, 532015EX, 532055EX | 532715 | 1 |
| 125x125 | 532016, 532116, 532346, 538018, 538118, 532016EX, 532116EX | 532716 | 1 |
| 185x125 | 532017, 532117, 532667, 532677, 538017, 538117, 532017EX, 532117EX, 532667EX | 532717 | 1 |
| 250x125 | 532018, 532118, 532618, 532628, 532638, 532648, 538016, 538116, 532018EX, 532118EX, 532628EX | 532718 | 1 |



TAIS SERIES

Plates for mounting interlocked socket-outlets, in thermosetting material

| No. of installable devices | Device module | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------------------|-----------------------|-----------------|----------------|-----------|
| 1 | 92 | 92x430 | 538701 | 1 |
| 2 | 2x92 | 185x430 | 538702 | 1 |
| 2 | 2x92 | 185x501 | 538703 | 1 |
| 1 | 92/125 | 125x630 | 538711 | 1 |
| 2 | 125+125/125+92/92+125 | 250x630 | 538712 | 1 |

Equipment: built-in threaded metal dowels, supplied with screws and stainless steel washers for device fastening.

Characteristics: they don't need an earth connection.

Uses: for fastening TAIS distribution boards to the wall.



TAIS SERIES

Coupling piece for plates in insulating thermosetting material

| For plate code | Palazzoli Code | Pack Q.ty |
|--|----------------|-----------|
| 538701, 538702, 538703, 538711, 538712 | 538791 | 50 |

Uses: these snap-on devices are fixed into their housings on the base plates for interlocked socket-outlets.

THE TECHNIQUE



ALUPRES-Ex SERIES - WATERTIGHT INTERLOCKED SOCKET-OUTLETS IN ALUMINIUM ALLOY FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

This series of interlocked socket-outlets in die-cast aluminium allows for countless combinations of distribution boards. As the most comprehensive range on the market, it consists of 16A, 32A, 63A and 125A interlocked socket-outlets with blind modular enclosures and mounting plates for making complete combinations. The socket-outlets and switches are directly fixed onto the bottom box instead of the front panel. The interlock is not only a system for protecting people against shocks and opening arcs, but it performs a fundamental function against the trigger of an explosion by preventing sparks when plugs and sockets are connected.

The interlock switch, isolated in a restricted breathing enclosure, is in the AC23 and AC3 category with Icc up to 10kA and permits the direct control of the motors. As well as the IEC EN50021 Standard that governs Ex n electrical construction, the interlocked socket-outlets comply with the CEI EN 60309, CEI EN 60947, CEI EN 60742 Standards.



These products are made of die-cast aluminium alloy UNI 1706 AC-46100DF and powder painted with polymerized non-scratch paint at 180°C, which also makes them suitable for environments with the presence of abrasive elements. A special chrome treatment applied before painting guarantees protection against corrosion. The walls have a minimum thickness of 3 mm, ensuring outstanding impact resistance (30 Joules).



THE ADVANTAGES



COMPACT

The socket-outlets with 16A fuses are only 92 mm wide, so you can install distribution boards with 2 socket-outlets on 20 cm columns.



SAFE

The ceramic fuse-holder base and GWT 960°C self-extinguishing thermosetting socket insert (for 63A and 125A) guarantee safety in extreme heat even in limited conditions. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected.



COMPLETE

The most widely used 16A versions with fuse-holder base are supplied with a flange and cable gland that make them ready to be installed.



ROBUST

The even thicker enclosure guarantees high impact resistance of up to 30 J even in extreme temperatures (-40°C - +70°C).

ALUPRES-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ

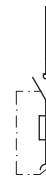


For classifications of each item see page 286-287



ALUPRES-EX SERIES

ATEX wall-mounted interlocked socket-outlets with fuse-holder base, in modular enclosure in aluminium alloy
IP66 / IP67



| Rated current (A) | Frequency | Rated voltage | Voltage colour | Poles | H Ref. | Palazzoli Code | Pack Q.ty |
|--------------------|-----------|---------------|----------------|--------|--------|-------------------|-----------|
| 16A (2D) | 50-60Hz | 110V | Yellow | 2P+⊕ | 4 | 472233EX | 10 |
| 10A (3G) | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 472243EX | 1 |
| | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 472253EX | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 472333EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 472343EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+N+⊕ | 9 | 472353EX | 1 |
| | 50-60Hz | 400V | Red | 2P+⊕ | 9 | 472433EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 472443EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 472453EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 472543EX | 1 |
| | 50-60Hz | 500V | Black | 3P+N+⊕ | 7 | 472553EX | 1 |
| 32A (2D) | 50-60Hz | 110V | Yellow | 3P+⊕ | 4 | 472246EX | 1 |
| 16A (3G) | 50-60Hz | 110V | Yellow | 3P+N+⊕ | 4 | 472256EX ♦ | 1 |
| | 50-60Hz | 230V | Blue | 2P+⊕ | 6 | 472336EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 472346EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 472446EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 472456EX | 1 |
| 40A (2D-3G) | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 472546EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 472347EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 472447EX | 1 |
| 80A (2D-3G) | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 472457EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 472547EX | 1 |
| | 50-60Hz | 230V | Blue | 3P+⊕ | 9 | 472348EX | 1 |
| | 50-60Hz | 400V | Red | 3P+⊕ | 6 | 472418EX | 1 |
| | 50-60Hz | 400V | Red | 3P+N+⊕ | 6 | 472428EX | 1 |
| | 50-60Hz | 500V | Black | 3P+⊕ | 7 | 472518EX | 1 |

♦ Supplied on request.

Equipment:

flange with 1/2" gas cable gland for 16A socket-outlets; flange with 1" gas cable gland for 32A socket-outlets; flange with 1" 1/4 gas cable gland for 63A socket-outlets; flange with 1" 1/2 gas cable gland for 80A socket-outlets

Characteristics:

NDZ (E16) fuses for 16A socket-outlets, DIII (E33) for 32A and 63A, ACR GR000 for 80A socket-outlets (fuses not supplied). Fittings in non-sparking, non-loosening, closed fuse-holders with interlock which blocks replacement when power is on.

Upper passage: F0 window for 16A socket-outlets; F1 window for 32A and 63A socket-outlets; F3 window for 80A socket-outlets 63A and 80A socket-outlets with IP65 protection rating.

Uses:

its highly compact form makes it ideal for installing in small spaces (e.g. on pillars, on machines...).

Complementary items:

straight plugs on page 289.

INTERLOCKED SOCKET-OUTLETS



new

ALUPRES-Ex SERIES

ATEX enclosures with windowed walls, in aluminium alloy, with mounting plates in tropicalized steel plate IP66 / IP67

| External dimensions (mm) | Available power (W) | Window type | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-------------|-----------------|-----------|
| 125x125x113 | 10 | | 511914EX | 1 |
| 125x125x113 | 10 | | 511915EX | 1 |
| 185x125x113 | 12 | | 511916EX | 1 |
| 252x125x113 | 20 | | 511918EX | 1 |
| 252x125x113 | 20 | | 511919EX | 1 |
| → 252x125x113 | 20 | | 511932EX | 1 ← |

Equipment:

windows complete with gaskets and screws.
No.2 F1 blind flanges code 540091.
Internal and external earth screws.

Characteristics:

EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure.
For this purpose, consider the power dissipated from each type of connection.

Complementary items:

blind flanges on page 303,
flanges with cable glands on page 302.



ALUPRES SERIES

Flat aluminium alloy closing flanges with cable gland for enclosures with windowed walls IP67

| For windows | Ring nut diameter (mm) | Gasket diameter (mm) | Threading type | Palazzoli Code | Pack Q.ty |
|----------------------|------------------------|----------------------|----------------|----------------|-----------|
| F0 (insulating mat.) | 16 | 9÷12 | 1/2" | 541010 | 1 |
| F0 (insulating mat.) | 20 | 14÷16 | 3/4" | 541020 | 1 |
| F0 | 16 | 9÷12 | 1/2" | 541080 | 10 |
| F0 | 20 | 12÷16 | 3/4" | 541090 | 1 |
| F0 | 25,5 | 17÷20 | 1" | 541030 | 20 |
| F1 | 16 | 9÷12 | 1/2" | 541011 | 1 |
| F1 | 20 | 14÷16 | 3/4" | 541021 | 1 |
| F0 | 16 | 9÷12 | 1/2" | 541040 | 1 |

Characteristics:

suitable for the entry with threaded pipes.
Art. 541040 with 2 separate entries.



ALUPRES SERIES

Raised closing flanges in aluminium alloy with cable gland for enclosures with windowed walls IP67

| For windows | Ring nut diameter (mm) | Gasket diameter (mm) | Threading type | Palazzoli Code | Pack Q.ty |
|-------------|------------------------|----------------------|----------------|----------------|-----------|
| F1 | 25,5 | 16÷22 | 1" | 540151 | 1 |
| F1 | 36 | 25÷26 | 1" 1/4 | 540141 | 1 |
| F2 | 25,5 | 16÷22 | 1" | 540152 | 1 |
| F2 | 36 | 25÷26 | 1" 1/4 | 540142 | 1 |
| F3 | 41,5 | 34÷35 | 1" 1/2 | 540153 | 1 |
| F4 | 41,5 | 25÷35 | 1" 1/2 | 540154 | 1 |
| F5 | 50 | 33÷44 | 2" | 540145 | 1 |
| F6 | 70 | 63÷64 | 2" 3/4 | 540156 | 1 |

Uses:

suitable for the entry with threaded pipes. They make wiring easier as they increase the internal volume of the enclosure. To close open entries.



ALUPRES SERIES

Flat steel closing flanges for enclosures with windowed walls IP67

| For windows | Projection (mm) | Palazzoli Code | Pack Q.ty |
|----------------------|-----------------|----------------|-----------|
| F0 (insulating mat.) | 5 | 540030 | 1 |
| F1 (insulating mat.) | 6 | 540031 | 5 |
| F0 | 2,5 | 540090 | 5 |
| F1 | 5,5 | 540091 | 5 |
| F2 | 5,5 | 540032 | 1 |
| F3 | 6 | 540033 | 2 |
| F4 | 6 | 540034 | 2 |
| F5 | 7 | 540035 | 2 |
| F6 | 8 | 540036 | 1 |

Uses:

closing unused windows. Holes can be made for installing cable glands.



ALUPRES SERIES

Raised closing flanges in aluminium alloy for enclosures with windowed walls IP67

| For windows | Projection (mm) | Palazzoli Code | Pack Q.ty |
|-------------|-----------------|----------------|-----------|
| F1 | 32 | 540061 | 12 |
| F2 | 32 | 540062 | 4 |
| F3 | 50 | 540063 | 1 |
| F4 | 50 | 540064 | 1 |
| F5 | 80 | 540065 | 1 |
| F6 | 80 | 540066 | 1 |

Uses:

closing unused windows. They make wiring easier as they increase the internal volume of the enclosure.



ALUPRES SERIES

Plates in galvanised and painted steel for mounting socket-outlets in aluminium alloy enclosure

| No. of installable devices | Device module | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------------------|-----------------------|-----------------|----------------|-----------|
| 2 | 2x92 | 185x389 | 532806 | 1 |
| 3 | 3x92 | 276x389 | 532816 | 1 |
| 2 | 2x92 | 185x421 | 532826 | 1 |
| 2 | 2x125 / 125+92 | 250x558 | 532836 | 1 |
| 3 | 3x125 | 375x558 | 532846 | 1 |
| 3 | 125+2x92 | 310x558 | 532856 | 1 |
| 4 | 2x125+2x92 / 125+3x92 | 435x558 | 532866 | 1 |

Equipment:

designed with threaded holes and inclusive of stainless steel screws for fastening fixtures.

Complementary items:

interlocked socket-outlets from page 301, enclosures on page 302.



ALUPRES SERIES

Pair of small plates with screws for coupling steel plates

| For plate code | Palazzoli Code | Pack Q.ty |
|--|----------------|-----------|
| 532806, 532816, 532826, 532836, 532846, 532856, 532866 | 532895 | 1 |

Uses:

these increase the combinations of possible distribution board arrangements.



TAIS-MIGNON-EX 305
In thermosetting material IP66 / IP67



RONDÒ-EX 307
In aluminium IP54 - IP66/IP67



TAIS-EX 306
In thermosetting material IP66 / IP67



ALUPRES-EX 307
In aluminium IP66 / IP67

TAIS-EX / TAIS-MIGNON-EX series
PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



TAIS-MIGNON-EX SERIES
ATEX watertight wall-mounted
modular junction boxes in
thermosetting material
IP66 / IP67

| External dimensions (mm) | Available power (W) | Hole type | Entry type | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-----------|---------------------|-----------------|-----------|
| 62x80x38 | 8 | | 1/2" gas (ø16/12mm) | 101021EX | 1 |
| 62x80x38 | 8 | | 1/2" gas (ø16/12mm) | 101031EX | 1 |
| 62x80x38 | 8 | | 1/2" gas (ø16/12mm) | 101041EX | 1 |
| 62x80x38 | 8 | | 1/2" gas (ø16/12mm) | 101061EX | 1 |
| 77x102x48 | 10 | | 1/2" gas (ø16/12mm) | 101151EX | 1 |
| 77x102x48 | 10 | | 3/4" gas (ø20/16mm) | 101161EX | 1 |

Equipment:

cable glands with gaskets come in the same quantity as the no. of entries.

Characteristics:

stainless steel screws for fastening covers. The modular dimensions allow for combinations with watertight wall-mounted modular boxes. EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure. For this purpose, the power dissipated by each type of connection must be considered, assuming the maximum power that can be dissipated is $P=0,0048I$ where I is the current used by the connection.



TAIS-MIGNON-EX SERIES
ATEX watertight wall-mounted
modular coupling box in
thermosetting material
IP66 / IP67

| External dimensions (mm) | Available power (W) | Hole type | Entry type | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-----------|---------------------|-----------------|-----------|
| 125x77x55 | 12 | | 3/4" gas (ø20/16mm) | 101081EX | 1 |



TAIS-MIGNON-EX SERIES
ATEX watertight wall-mounted
modular junction box, with mantle
terminals in thermosetting material
IP66 / IP67

| External dimensions (mm) | Terminals poles/section | Available power (W) | Hole type | Entry type | Palazzoli Code | Pack Q.ty |
|--------------------------|-------------------------|---------------------|-----------|---------------------|-----------------|-----------|
| 62x80x38 | 4x6mm ² | 8 | | 1/2" gas (ø16/12mm) | 101025EX | 1 |
| 62x80x38 | 4x6mm ² | 8 | | 1/2" gas (ø16/12mm) | 101035EX | 1 |
| 62x80x38 | 4x6mm ² | 8 | | 1/2" gas (ø16/12mm) | 101045EX | 1 |
| 77x102x48 | 5x6mm ² | 10 | | 1/2" gas (ø16/12mm) | 101156EX | 1 |
| 77x102x48 | 5x6mm ² | 10 | | 3/4" gas (ø20/16mm) | 101157EX | 1 |

Equipment:

inclusive of 6 mm² non-loosening mantle terminals. Cable glands with gaskets come in the same quantity as the no. of entries.

Characteristics:

stainless steel screws for fastening covers. EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure. For this purpose, consider the power dissipated from each type of connection.

Complementary items:

ring nuts for gas cable glands on page 313.

WATERTIGHT JUNCTION BOXES

TAIS-Ex SERIES

Watertight wall-mounted blind enclosures with ATEX low cover, in thermosetting material IP66 / IP67



| External dimensions (mm) | Available power (W) | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-----------------|-----------|
| 92x92x68 | 10 | 532035EX | 1 |
| 125x92x68 | 12 | 532045EX | 1 |
| 185x92x68 | 14 | 532055EX | 1 |
| 125x125x100 | 13 | 532116EX | 1 |
| 185x125x100 | 15 | 532117EX | 1 |
| 250x125x100 | 20 | 532118EX | 1 |

Characteristics:

Covers with captive stainless steel screws. EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure.

For this purpose, consider the power dissipated from each type of connection.

TAIS-Ex SERIES

Watertight wall-mounted blind enclosures with ATEX high cover, in thermosetting material IP66 / IP67



| External dimensions (mm) | Available power (W) | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-----------------|-----------|
| 92x92x100 | 12 | 532005EX | 1 |
| 125x92x100 | 14 | 532006EX | 1 |
| 185x92x100 | 16 | 532015EX | 1 |
| 125x125x125 | 15 | 532016EX | 1 |
| 185x125x125 | 17 | 532017EX | 1 |
| 250x125x125 | 22 | 532018EX | 1 |

Characteristics:

Covers with captive stainless steel screws. EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure.

For this purpose, consider the power dissipated from each type of connection.

TAIS SERIES

Mounting plates in anti-corrosion tropicalized steel, for watertight enclosures



| For enclosures with dimensions | For enclosure code | Palazzoli Code | Pack Q.ty |
|--------------------------------|--|----------------|-----------|
| 92x92 | 532005, 532035, 532225, 538005, 538035, 532005EX, 532035EX | 532705 | 1 |
| 125x92 | 532006, 532045, 532285, 532295, 538006, 538045, 532006EX, 532045EX | 532714 | 1 |
| 185x92 | 532015, 532055, 532325, 532385, 538015, 538055, 532015EX, 532055EX | 532715 | 1 |
| 125x125 | 532016, 532116, 532346, 538018, 538118, 532016EX, 532116EX | 532716 | 1 |
| 185x125 | 532017, 532117, 532667, 532677, 538017, 538117, 532017EX, 532117EX, 532667EX | 532717 | 1 |
| 250x125 | 532018, 532118, 532618, 532628, 532638, 532648, 538016, 538116, 532018EX, 532118EX, 532628EX | 532718 | 1 |

TAIS-Ex SERIES

ATEX watertight blind enclosures in thermosetting material with mounting plate in tropicalized steel plate - IP66 / IP67



| External dimensions (mm) | Available power (W) | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-----------------|-----------|
| 185x185x140 | 20 | 531911EX | 1 |
| 250x185x190 | 24 | 531931EX | 1 |
| 250x250x190 | 28 | 531940EX | 1 |
| 250x370x190 | 35 | 531942EX | 1 |
| 370x500x190 | 60 | 531962EX | 1 |

Characteristics:

EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure. For this purpose, consider the power dissipated from each type of connection.

**RONDÒ-Ex / ALUPRES-EX series****PRODUCT SPECIFICATIONS**

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287

**RONDO' SERIES**

ATEX Ex wall-mounted junction
boxes in aluminium alloy
IP54

| Internal diameter (mm) | Available power (W) | Cable gland type | Palazzoli Code | Pack Q.ty |
|------------------------|---------------------|------------------|-----------------|-----------|
| Ø 62 | 3 | 2x1/2" | 112020EX | 1 |
| Ø 62 | 3 | 3x1/2" | 112030EX | 1 |
| Ø 62 | 3 | 4x1/2" | 112040EX | 1 |
| Ø 82 | 4 | 2x3/4" | 113020EX | 1 |
| Ø 82 | 4 | 3x3/4" | 113030EX | 1 |
| Ø 82 | 4 | 4x3/4" | 113040EX | 1 |

Equipment:

earth screws inside and outside the box.

Characteristics:

EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure. For this purpose, consider the power dissipated from each type of connection.

**ALUPRES-Ex SERIES**

ATEX wall-mounted junction
boxes in aluminium alloy
IP66 / IP67

| External dimensions (mm) | Available power (W) | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------|-----------------|-----------|
| 92x92x77 | 10 | 511910EX | 1 |
| 125x92x77 | 12 | 511911EX | 1 |
| 185x92x77 | 14 | 511912EX | 1 |
| 125x125x113 | 13 | 511913EX | 1 |
| 155x155x73 | 15 | 150021EX | 1 |
| 252x125x113 | 20 | 511917EX | 1 |
| 185x185x145 | 18 | 511920EX | 1 |
| 252x185x145 | 22 | 511921EX | 1 |
| 220x220x108 | 20 | 511922EX | 1 |
| 252x252x197 | 25 | 511923EX | 1 |
| 315x252x193 | 30 | 511924EX | 1 |
| 507x252x193 | 50 | 511925EX | 1 |
| 295x295x123 | 40 | 511926EX | 1 |
| 315x315x193 | 45 | 511927EX | 1 |
| 373x373x220 | 48 | 511928EX | 1 |
| 507x373x305 | 60 | 511929EX | 1 |
| 630x373x267 | 80 | 511930EX | 1 |
| 630x507x193 | 90 | 511931EX | 1 |

Equipment:

earth screws inside and outside the box.

Characteristics:

EEx n enclosures can be used for housing a certain number of non-sparking components (terminals) to prevent higher dissipated power than the value for each enclosure. For this purpose, consider the power dissipated from each type of connection.

TERMINAL BLOCKS

CONTACT-Ex series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287

CONTACT SERIES

Junction terminal blocks for watertight enclosures



| Rated voltage | For enclosures with dimensions (mm) | No. Poles for section | Enclosure material | Palazzoli Code | Pack Q.ty |
|---------------|-------------------------------------|-----------------------|--------------------|-----------------|-----------|
| 400V | 92x92 | 4x6 mm ² | Ceramic | 532725EX | 1 |
| 400V | 92x92 | 4x6 mm ² | Thermoplastic | 532735EX | 1 |
| 400V | 92x125, 92x185 125x125, 125x185 | 4x6 mm ² | Ceramic | 532745EX | 1 |
| 500V | 92x185, 125x125 125x185 | 4x16 mm ² | Ceramic | 532747EX | 1 |
| 500V | 125x250 | 4x16 mm ² | Ceramic | 532748EX | 1 |
| 500V | 92x92 | 6x4 mm ² | Thermosett. | 532755EX | 1 |
| 400V | 92x125, 92x185, 125x125, 125x185 | 6x6 mm ² | Ceramic | 532765EX | 1 |
| 500V | 125x250 | 6x16 mm ² | Ceramic | 532768EX | 1 |

Characteristics:

corrosion-proof non-sparking and non-loosening terminals for EEx nA connections and junctions if housed in boxes shown in this catalogue. Anti-tracking insulating enclosure.

For codes 532747EX, 532748EX and 532768EX the cross section of 16mm² is valid when using rigid cables, otherwise it is 10mm².

CONTACT-Ex SERIES

ATEX junction terminal block for watertight boxes - 380V



| Poles /section | Palazzoli Code | Pack Q.ty |
|---------------------|-----------------|-----------|
| 4x6 mm ² | 101096EX | 1 |

Characteristics:

they are fitted in the TAIS-MIGNON boxes with dim. 77x102 mm and dim. 55x125 mm without using screws. Max dispersed power 750mW.

CONTACT-Ex SERIES

ATEX junction terminal blocks with mantle terminals for 500V junction boxes



| Poles /section | Palazzoli Code | Pack Q.ty |
|----------------------|-----------------|-----------|
| 4x6 mm ² | 112094EX | 1 |
| 4x10 mm ² | 113094EX | 1 |

Characteristics:

for RONDO' series aluminium junction boxes:
code 113094EX for Ø 62 mm boxes
code 113094EX for Ø 82 mm boxes.

**CONTACT-Ex SERIES**

ATEX junction terminal block
with flat terminals for watertight
enclosures

| Poles /section | Rated voltage | For enclosures with dimensions | Palazzoli Code | Pack Q.ty |
|-----------------------|---------------|--------------------------------|-----------------|-----------|
| 3x16 mm ² | 500 | 92x92 | 159030EX | 1 |
| 3x25 mm ² | 500 | 125x125 | 159032EX | 1 |
| 3x40 mm ² | 500 | 155x155 | 159033EX | 1 |
| 3x70 mm ² | 500 | 185x185 | 159034EX | 1 |
| 3x125 mm ² | 500 | 220x220 | 159035EX | 1 |
| 3x200 mm ² | 500 | 295x295 | 159036EX | 1 |
| 3x315 mm ² | 500 | 373x373 | 159037EX | 1 |
| 4x16 mm ² | 500 | 125x125 | 159040EX | 1 |
| 4x25 mm ² | 500 | 155x155 | 159042EX | 1 |
| 4x40 mm ² | 500 | 185x185 | 159043EX | 1 |
| 4x70 mm ² | 500 | 220x220 | 159044EX | 1 |
| 4x125 mm ² | 500 | 295x295 | 159045EX | 1 |
| 4x200 mm ² | 500 | 373x373 | 159046EX | 1 |

Characteristics:

corrosion-proof non-sparking and non-loosening terminals for EEx nA connections and junctions if housed in boxes shown in this catalogue.
Anti-tracking insulating enclosure.

Complementary items:

TAIS enclosures on page 306.

ALUPRES enclosures on page 307.



UNI-EX

311

Pg in insulating material



UNI-EX

313

Metric in brass



UNI-EX

312

Metric in insulating material

UNI-EX series**PRODUCT SPECIFICATIONS**

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

For classifications of each item see page 286-287

**UNI-EX SERIES**

ATEX insulated cable glands with Pg threading IP68

| Pg | Assembly hole (mm) | Campling diameter (mm) | Thread lenght (mm) | Palazzoli Code | Pack Q.ty |
|------|--------------------|------------------------|--------------------|-----------------|-----------|
| 7 | 13 | 3÷6,5 | 8 | 571007EX | 50 |
| 9 | 16 | 4÷8 | 8 | 571009EX | 50 |
| 11 | 19 | 5÷10 | 8 | 571011EX | 50 |
| 13,5 | 21 | 6,5÷12 | 9 | 571013EX | 50 |
| 16 | 23 | 10÷14 | 10 | 571016EX | 50 |
| 21 | 29 | 13÷18 | 11 | 571021EX | 50 |
| 29 | 38 | 18÷25 | 11 | 571029EX | 25 |
| 36 | 48 | 22÷32 | 13 | 571036EX | 10 |
| 42 | 55 | 32÷38 | 13 | 571042EX | 5 |
| 48 | 61 | 37÷44 | 14 | 571048EX | 5 |

**UNI-EX SERIES**

ATEX insulated cable glands with Pg threading, long thread IP68

| Pg | Assembly hole (mm) | Campling diameter (mm) | Thread lenght (mm) | Palazzoli Code | Pack Q.ty |
|------|--------------------|------------------------|--------------------|-----------------|-----------|
| 7 | 13 | 3÷6,5 | 15 | 571107EX | 50 |
| 9 | 16 | 4÷8 | 15 | 571109EX | 50 |
| 11 | 19 | 5÷10 | 15 | 571111EX | 50 |
| 13,5 | 21 | 6,5÷12 | 15 | 571113EX | 50 |
| 16 | 23 | 10÷14 | 15 | 571116EX | 50 |
| 21 | 29 | 13÷18 | 15 | 571121EX | 50 |
| 29 | 38 | 18÷25 | 15 | 571129EX | 25 |
| 36 | 48 | 22÷32 | 18 | 571136EX | 10 |
| 42 | 55 | 32÷38 | 18 | 571142EX | 5 |
| 48 | 61 | 37÷44 | 18 | 571148EX | 5 |

**UNI-EX SERIES**

ATEX fittings with Pg threads for watertight enclosures IP66 / IP67

| Pg | Assembly hole (mm) | For cables max Ø | Palazzoli Code | Pack Q.ty |
|-------|--------------------|------------------|-----------------|-----------|
| 21 | 29 | 17 | 580242EX | 1 |
| 29 | 38 | 24 | 580243EX | 1 |
| 36 | 48 | 37 | 580244EX | 1 |
| 29/36 | 38 -> 48 | 24 | 580203EX | 1 |

Characteristics:

they can couple enclosures to socket-outlets and enclosures to enclosures.

Equipment:

inclusive of threaded ring nut, nut and gasket.

**UNI-EX SERIES**

ATEX screwcaps with Pg thread IP66 / IP67

| Pg | Palazzoli Code | Pack Q.ty |
|----|-----------------|-----------|
| 21 | 580232EX | 1 |
| 29 | 580233EX | 1 |
| 36 | 580234EX | 1 |

Equipment:

inclusive of gasket.

**UNI SERIES**

Polygonal nuts with Pg thread

| Pg | Palazzoli Code | Pack Q.ty |
|------|----------------|-----------|
| 7 | 571207 | 500 |
| 9 | 571209 | 500 |
| 11 | 571211 | 400 |
| 13,5 | 571213 | 300 |
| 16 | 571216 | 250 |
| 21 | 571221 | 300 |
| 29 | 571229 | 150 |
| 36 | 571236 | 100 |
| 42 | 571242 | 75 |
| 48 | 571248 | 50 |

Uses:

they are used for fastening Pg accessories on walls with through holes.

UNIVERSAL FITTINGS AND ACCESSORIES



UNI-Ex SERIES

ATEX insulated cable glands with metric thread IP68

| Thread | Assembly hole (mm) | Campling diameter (mm) | Thread lenght (mm) | Palazzoli Code | Pack Q.ty |
|---------|--------------------|------------------------|--------------------|-----------------|-----------|
| M12x1,5 | 12,5 | 3÷6,5 | 8 | 581012EX | 50 |
| M16x1,5 | 16,5 | 4÷8 | 8 | 581016EX | 50 |
| M20x1,5 | 20,5 | 6,5÷12 | 9 | 581020EX | 50 |
| M25x1,5 | 25,5 | 13÷18 | 11 | 581025EX | 50 |
| M32x1,5 | 32,5 | 18÷25 | 11 | 581032EX | 25 |
| M40x1,5 | 40,5 | 22÷32 | 13 | 581040EX | 10 |
| M50x1,5 | 50,5 | 32÷38 | 13 | 581050EX | 5 |
| M63x1,5 | 63,5 | 34÷45 | 13 | 581063EX | 5 |

Characteristics:

Sealed threading suitable for creating restricted breathing.



UNI-Ex SERIES

ATEX insulated cable glands with metric thread, long thread IP68

| Thread | Assembly hole (mm) | Campling diameter (mm) | Thread lenght (mm) | Palazzoli Code | Pack Q.ty |
|---------|--------------------|------------------------|--------------------|-----------------|-----------|
| M12x1,5 | 12,5 | 3÷6,5 | 15 | 581112EX | 50 |
| M16x1,5 | 16,5 | 4÷8 | 15 | 581116EX | 50 |
| M20x1,5 | 20,5 | 6,5÷12 | 15 | 581120EX | 50 |
| M25x1,5 | 25,5 | 13÷18 | 15 | 581125EX | 50 |
| M32x1,5 | 32,5 | 18÷25 | 15 | 581132EX | 25 |
| M40x1,5 | 40,5 | 22÷32 | 18 | 581140EX | 10 |
| M50x1,5 | 50,5 | 32÷38 | 18 | 581150EX | 5 |
| M63x1,5 | 63,5 | 37÷44 | 18 | 581163EX | 5 |

Characteristics:

Sealed threading suitable for creating restricted breathing.

Uses:

for cable/pipe entry into boxes with very thick walls.



UNI SERIES

Polygonal nuts with metric thread for cable glands IP68

| Thread | Palazzoli Code | Pack Q.ty |
|---------|----------------|-----------|
| M12x1,5 | 581212 | 500 |
| M16x1,5 | 581216 | 500 |
| M20x1,5 | 581220 | 300 |
| M25x1,5 | 581225 | 300 |
| M32x1,5 | 581232 | 200 |
| M40x1,5 | 581240 | 150 |
| M50x1,5 | 581250 | 100 |
| M63x1,5 | 581263 | 75 |

Uses:

they are used to fasten metric cable glands to walls with through holes.

**UNI-Ex SERIES**

ATEX brass cable glands
with metric thread
IP68



| Thread | Assembly hole (mm) | Camping diameter (mm) | Thread length (mm) | Palazzoli Code | Pack Q.ty |
|---------|--------------------|-----------------------|--------------------|-----------------|-----------|
| M12x1,5 | 12,5 | 3 - 6,5 | 10 | 582112EX | 50 |
| M16x1,5 | 16,5 | 6 - 10 | 10 | 582116EX | 50 |
| M20x1,5 | 20,5 | 7 - 12 | 10 | 582120EX | 50 |
| M25x1,5 | 25,5 | 10 - 16 | 12 | 582125EX | 50 |
| M32x1,5 | 32,5 | 13 - 20 | 12 | 582132EX | 25 |
| M40x1,5 | 40,5 | 20 - 26 | 15 | 582140EX | 10 |
| M50x1,5 | 50,5 | 25-31 | 15 | 582150EX | 5 |
| M63x1,5 | 63,5 | 29-35 | 15 | 582163EX | 5 |

Uses:

they are used to fasten metric cable glands to walls with through holes.

UNI SERIES

Brass polygonal nuts with
metric thread



| Thread | Palazzoli Code | Pack Q.ty |
|---------|----------------|-----------|
| M12x1,5 | 582212 | 100 |
| M16x1,5 | 582216 | 100 |
| M20x1,5 | 582220 | 100 |
| M25x1,5 | 582225 | 100 |
| M32x1,5 | 582232 | 100 |
| M40x1,5 | 582240 | 50 |
| M50x1,5 | 582250 | 25 |
| M63x1,5 | 582263 | 25 |

Uses:

they are used to fasten metric cable glands to walls with through holes.

**UNI-Ex SERIES**

ATEX screwcaps
with Gas thread
IP66 and IP67

| Assembly hole type | Palazzoli Code | Pack Q.ty |
|--------------------|-----------------|-----------|
| 3/8" | 580051EX | 1 |
| 1/2" | 580052EX | 1 |
| 3/4" | 580054EX | 1 |

Uses:

it closes unused Gas holes.

**UNI-Ex SERIES**

ATEX fittings with Gas thread
for Pg watertight enclosures
IP66 and IP67

| Assembly hole type | Internal hole ø (mm) | Palazzoli Code | Pack Q.ty |
|--------------------|----------------------|-----------------|-----------|
| 1/2" | 16 | 590002EX | 100 |
| 3/4" | 20 | 590004EX | 1 |

Equipment:

inclusive of sleeve and small gasket ring in elastomer.

Uses:

they are used for coupling boxes with holes of the same size.

**UNI-Ex SERIES**

ATEX fittings for coupling smooth
hole box/threaded hole box
IP66 and IP67

| Assembly hole type | Smooth hole ø (mm) | Internal hole ø (mm) | Palazzoli Code | Pack Q.ty |
|--------------------|--------------------|----------------------|-----------------|-----------|
| 1/2" | 21 | 12,5 | 590032EX | 100 |

Equipment:

inclusive of threaded sleeve with notched crown and small gasket ring in elastomer.

Uses:

it is used for coupling a smooth hole box with a 1/2" threaded hole box.

Complementary items:

spanner for fittings on page 169.

Protected Area





CAM-EX

317

Thermosetting enclosure IP66 / IP67



CAM-EX

318

Aluminium enclosure IP66 / IP67

THE TECHNIQUE



CAM-Ex SERIES - WALL-MOUNTED ROTARY CONTROL DEVICES FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

Available with an enclosure in insulating material or aluminium, this is a vast series of high performance wall-mounted devices with cam control. It is for alternated current networks with voltages of up to 500V and currents from 16A to 600A, for motor control, light/signalling circuits and resistance devices. The rotary switches in this series, the control shaft of which projects from the front by means a spring washer system with perfect seal, are perfectly protected against explosions in both gaseous and dusty atmospheres by being isolated in a restricted breathing enclosure.

The AC23 and AC3 categories (see table) enable direct control of the motors. As well as the IEC EN50021 Standard that governs Ex n electrical construction, the switches comply with the EC EN60947-3 Standard.

APPLICATIONS:

fuel deposits, pharmaceutical and chemical industries, oil refineries, petrol stations, heating plants, large kitchens, painting rooms, garages, both in areas 2 (compulsory) and NE areas (recommended); carpenteries, plastic-laminated board working, sugar-works, mills, farmyards, barns both in areas 22 (compulsory) and NE areas (recommended).

THE ADVANTAGES

DEVICES IN THERMOSETTING ENCLOSURES



HIGH ELECTRICAL PERFORMANCES

The contacts in silver alloy are double-break. Each "disk" holds two complete contacts with high connecting and disconnecting power.

TABLE OF CATEGORIES

| CAM | A32 | CAM | CAM | CAM | |
|----------------|-----------|-------|---------|----------|----------------------|
| | 16-25-40A | | 63-100A | 125-200A | 400-600 800-1200A |
| Cat. AC23A-AC3 | AC23A-AC3 | AC23A | AC22A | AC20A | |

DEVICES IN DIE-CAST ALUMINIUM ENCLOSURES



TOTAL SAFETY

The contact holder disks are made of very thick reinforced thermosetting technopolymer which guarantees dimensional stability and non-deformability even in the case of extreme temperatures generated by overloads.



SIMULTANEOUS CONTROLS

All the control shafts are single pieces (through bar) and enable simultaneous and direct control of each cam, without mechanical joints in between.



ROBUST

The even thicker enclosure guarantees high impact resistance of up to 30 J even in extreme temperatures (-40°C - +70°C).



ETERNAL

Characterised by a reinforced structure with even thicker walls and high IP67 and IP65 protection rating, these practically maintenance-free enclosures offer excellent resistance against stress/vibrations.

CAM-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



CAM-Ex SERIES

ATEX watertight wall-mounted switches in windowed enclosure of thermosetting material IP66 / IP67

| Rated current (A) | Poles | CAM layout | Enclosure dimensions (mm) | Window type | Palazzoli Code | Pack Q.ty |
|--------------------------------|-------|------------|---------------------------|-------------|-----------------|-----------|
| 100A (2D) 80A (3G) | 4 | 3 | 185x250 | | 292503EX | 1 |
| 200A (2D) 150A (3G) | 4 | 3 | 185x250 | | 292603EX | 1 |
| | 4 | 3 | 250x250 | | 292623EX | 1 |

Equipment:

Lockable knob. Earth terminal inside the box. Windowed enclosures with flanged windows equipped with gaskets and screws.

Characteristics:

Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected. Corrosion resistant non-loosening terminals.

Anti-tracking, anti-static and self-extinguishing resin body.



CAM-Ex SERIES

ATEX watertight wall-mounted switches in enclosure of thermosetting material IP66 / IP67

| Rated current (A) | Poles | CAM layout | Enclosure dimensions (mm) | Hole type | Palazzoli Code | Pack Q.ty |
|------------------------------|-------|------------|---------------------------|-----------|-----------------|-----------|
| 16A (2D) 10A (3G) | 2 | 1 | 92x125 | | 292101EX | 1 |
| | 3 | 2 | 92x125 | | 292102EX | 1 |
| | 4 | 3 | 92x125 | | 292103EX | 1 |
| 25A (2D) 20A (3G) | 2 | 1 | 92x125 | | 292201EX | 1 |
| | 3 | 2 | 92x125 | | 292202EX | 1 |
| | 4 | 3 | 92x125 | | 292203EX | 1 |
| 40A (2D) 32A (3G) | 2 | 1 | 125x185 | | 292301EX | 1 |
| | 3 | 2 | 125x185 | | 292302EX | 1 |
| | 4 | 3 | 125x185 | | 292303EX | 1 |
| 63A (2D) 50A (3G) | 2 | 1 | 125x185 | | 292411EX | 1 |
| | 3 | 2 | 125x185 | | 292412EX | 1 |
| | 4 | 3 | 125x185 | | 292413EX | 1 |

Equipment:

earth terminal block inside the box.

Characteristics:

Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected. Corrosion resistant non-loosening terminals.

Anti-tracking, anti-static and self-extinguishing resin body.

ROTARY CONTROL AND PROTECTION DEVICES



CAM SERIES

ATEX wall-mounted watertight switches in aluminium alloy windowed enclosure
IP66 / IP67

| Rated current (A) | Poles | CAM layout | Enclosure dimensions (mm) | Window type | Palazzoli Code | Pack Q.ty |
|-------------------|-------|------------|---------------------------|-------------|-----------------|-----------|
| 16 (2D-3G) | 2 | 1 | 92x92 | F0 1/2" | 272141EX | 6 |
| | 3 | 2 | 92x92 | F0 1/2" | 272142EX | 6 |
| | 4 | 3 | 92x92 | F0 1/2" | 272143EX | 6 |
| | 6 | 3.1 | 92x125 | F0 3/4" | 272144EX | 1 |
| 25 (2D-3G) | 2 | 1 | 92x92 | F0 3/4" | 272241EX | 1 |
| | 3 | 2 | 92x92 | F0 3/4" | 272242EX | 6 |
| | 4 | 3 | 92x92 | F0 3/4" | 272243EX | 6 |
| | 6 | 3.1 | 92x125 | F0 3/4" | 272244EX | 1 |
| 40 (2D-3G) | 2 | 1 | 125x125 | F1 1" | 272301EX | 1 |
| | 3 | 2 | 125x125 | F1 1" | 272302EX | 1 |
| | 4 | 3 | 125x125 | F1 1" | 272303EX | 1 |
| | 6 | 3.1 | 125x185 | F1 1" | 272304EX | 1 |

(to be contd.)

| Rated current (A) | Poles | CAM layout | Enclosure dimensions (mm) | Window type | Palazzoli Code | Pack Q.ty |
|----------------------------|-------|------------|---------------------------|-------------|-----------------|-----------|
| 63 (2D) 50 (3G) | 3 | 2 | 125x185 | F1 1" | 282402EX | 1 |
| | 4 | 3 | 125x185 | F1 1" | 282403EX | 1 |
| | 6 | 3.1 | 125x185 | F1 1" | 282404EX | 1 |
| 80 (3GD) | 3 | 2 | 185x252 | F3 1 1/2" | 272502EX | 1 |
| | 4 | 3 | 185x252 | F3 1 1/2" | 272503EX | 1 |
| 200 (3GD) | 4 | 3 | 220x315 | F3 1 1/2" | 282603EX | 1 |

Equipment:

Earth terminal inside and outside the box.

Characteristics:

IP65 protection rating for 80A and 200A versions.



CAM-Ex SERIES

ATEX wall-mounted watertight selector switches in aluminium alloy windowed enclosures
IP66 / IP67

| Rated current (A) | Poles | CAM layout | Enclosure dimensions (mm) | Window type | Palazzoli Code | Pack Q.ty |
|-------------------|-------|------------|---------------------------|---------------------------------|----------------|-----------|
| 16A (3GD) | 3 | 6 | 92x125 | F0 1/2" F0 1/2" + 1/2" | 272146EX | 1 |
| | 4 | 7 | 92x125 | F0 1/2" F0 1/2" + 1/2" | 272147EX | 1 |
| 25A (3GD) | 3 | 6 | 92x125 | F0 3/4" F0 1/2" + 1/2" | 272246EX | 1 |
| | 4 | 7 | 92x125 | F0 3/4" F0 1/2" + 1/2" | 272247EX | 1 |
| 40A (3GD) | 3 | 6 | 125x185 | F1 3/4" - 3/4" F1 1" | 272306EX | 1 |
| | 4 | 7 | 125x185 | F1 3/4" - 3/4" F1 1" | 272307EX | 1 |
| 50A (3GD) | 3 | 6 | 125x185 | F1 3/4" - 3/4" F1 1" | 282406EX | 1 |
| | 4 | 7 | 252x185 | F4 1 1/2" + 1 1/2" F4 2 1/2" | 282407EX | 1 |
| 100A (3GD) | 4 | 7 | 315x315 | F5 2 1/2" - 2" F5 2 1/2" | 272507EX | 1 |

Equipment:

earth terminal inside and outside the box.

Characteristics:

IP65 protection rating for 100A version.



ALARM-EX

321

Sirens



ALARM-EX

321

Bells

ALARM-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



ALARM-Ex SERIES

ATEX watertight sirens with vibrating diaphragm for extended operation in aluminium alloy enclosure IP66

| Rated voltage | Frequency | Sound level at 1 mt. (dB) | Power (VA) | Cable gland type | Palazzoli Code | Pack Q.ty |
|---------------|-----------|---------------------------|-----------------------------|------------------|-----------------|-----------|
| 24V~ | 50/60Hz | 107/105 | 60VA initial vibrating 25VA | M25x1,5 | 900453EX | 1 |
| 110V~ | 50/60Hz | 107/105 | 60VA initial vibrating 25VA | M25x1,5 | 900463EX | 1 |
| 230V~ | 50/60Hz | 107/105 | 60VA initial vibrating 25VA | M25x1,5 | 900473EX | 1 |

Equipment:

cable gland with gasket, terminal block in insulating thermosetting material.

Characteristics:

extended operation with 1 hour pause every 4 hours. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure the proper limited respiration even after frequent removal. The aluminium alloy casing ensures the greatest level of protection against severe environmental conditions, in particular against impact and corrosion. Corrosion resistant non-loosening terminals.



ALARM SERIES

Directional horn for sirens

| Max diameter (mm) | Projection of siren+horn (mm) | Palazzoli Code | Pack Q.ty |
|-------------------|-------------------------------|----------------|-----------|
| 112 | 238 | 900448 | 1 |

Equipment:

inclusive of stainless steel fixing screws.



ALARM-Ex SERIES

ATEX watertight sirens for continuous operation in aluminium alloy enclosure IP66

| Rated voltage | Drum diameter (mm) | Sound level at 1 mt. (dB) | Power (VA) | Cable gland type | Palazzoli Code | Pack Q.ty |
|---------------|--------------------|---------------------------|--------------------------------|------------------|-----------------|-----------|
| 24V~ | 105 | 101 | initial 13VA 11VA vibrating | M25x1,5 | 900253EX | 1 |
| 110V~ | 105 | 101 | initial 13VA 11VA vibrating | M25x1,5 | 900263EX | 1 |
| 230V~ | 105 | 101 | initial 13VA 11VA vibrating | M25x1,5 | 900273EX | 1 |

Equipment:

cable gland with gasket, terminal block in insulating thermosetting material, earth screws inside and outside the box.

Characteristics:

they are suitable for continuous or extended operation. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure the proper limited respiration even after frequent removal. The aluminium alloy casing ensures the greatest level of protection against severe environmental conditions, in particular against impact and corrosion. Corrosion resistant non-loosening terminals.



TAIS-MIGNON-EX

324

In thermosetting material IP66 / IP67



RONDÒ-EX

327

In aluminium alloy IP54/IP65

THE TECHNIQUE



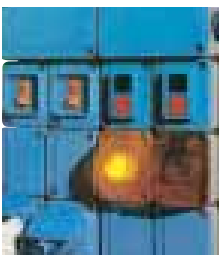
TAIS-MIGNON-Ex SERIES SMALL WALL-MOUNTED MODULAR DEVICES IN THERMOSETTING MATERIAL FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

This is a complete and varied range of devices for controlling, using energy and signalling, integrated in watertight modular enclosures with miniaturised dimensions. Totally made of reinforced thermosetting material, they have a high protection rating of up to IP67, high resistance against impacts, vibrations and aggressive chemical substances. The switches in this series, made in compliance with IEC 23-50 and 23-9 standards, are protected against explosions in both gaseous and dusty atmospheres by being isolated in a restricted breathing enclosure which conforms to the IEC EN50021 Standard. This is a complete and well-constructed range, which enables the functionality and simplicity of classic equipment for domestic and similar use to be extended to places with explosion danger.

APPLICATIONS:

pharmaceutical and chemical industries, petrol stations, heating plants, large kitchens, garages, both in areas 2 (compulsory) and NE areas (recommended); carpenteries, plastic-laminated board working, sugar-works, mills, farmyards, barns both in areas 22 (compulsory) and NE areas (recommended).

THE ADVANTAGES



TOTAL MODULARITY

The different devices can be easily combined so that small distribution board batteries can be made.



TOTAL SAFETY

The high protection rating IP67 and high mechanical resistance of the control devices ensure safety and continuity of operation even in the most heavy duty situations.



EASY TO INSTALL

All wall-mounted enclosures have Gas threaded holes for entering the cables. The cable glands supplied can be replaced by normal universal fittings for entering the pipe.



SAFE

The control devices provided with contacts in anti-loosening silver alloy can be used in areas where an explosive atmosphere could develop.

SMALL DEVICES IN MODULAR ENCLOSURES

TAIS-MIGNON-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



TAIS-MIGNON-EX SERIES
ATEX switches in watertight wall-mounted enclosure in thermosetting material IP66 / IP67

| Poles | Rated current/voltage | Enclosure dimensions (mm) | Hole type | Palazzoli Code | Pack Q.ty |
|-------|------------------------------------|---------------------------|-----------|-----------------|-----------|
| 1 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 1/2" | 202271EX | 1 |
| 1 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 3/8" 3/8" | 202261EX | 1 |
| 2 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 3/8" 3/8" | 202262EX | 1 |
| 2 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 1/2" | 202282EX | 1 |
| 3 | 8A (2D) - 12A (3G) 400V~ (2D - 3G) | 62x80x48 | 1/2" | 202283EX | 1 |

Characteristics:

code 202271EX can be used with two opposite entries using the gas cable gland code 580102EX. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected.

Corrosion resistant non-loosening terminals.



TAIS-MIGNON-EX SERIES

ATEX two-way switches in watertight wall-mounted enclosure in thermosetting material IP66 / IP67

| Poles | Rated current/voltage | Enclosure dimensions (mm) | Hole type | Palazzoli Code | Pack Q.ty |
|-------|-------------------------------|---------------------------|-----------|-----------------|-----------|
| 1 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 1/2" | 202276EX | 1 |
| 1 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 3/8" 3/8" | 202266EX | 1 |

Characteristics:

code 202276EX can be used with two opposite entries using the gas cable gland code 580102EX. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected.

Corrosion resistant non-loosening terminals.



TAIS-MIGNON-EX SERIES

ATEX selector switches in watertight wall-mounted enclosure in thermosetting material IP66 / IP67





| Poles | Rated current/voltage | Enclosure dimensions (mm) | Hole type | Palazzoli Code | Pack Q.ty |
|-------|-------------------------------|---------------------------|-----------|-----------------|-----------|
| 1 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 1/2" | 202275EX | 1 |
| 1 | 16A 250V~ 10A 400V~ (2D - 3G) | 62x80x48 | 3/8" 3/8" | 202265EX | 1 |

Characteristics:

code 202275EX can be used with two opposite entries using the gas cable gland code 580102EX. By removing the rear bond, the device becomes a double single-pole switch. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected. Corrosion resistant non-loosening terminals.



TAIS-MIGNON-Ex SERIES
ATEX push-buttons in watertight
wall-mounted enclosure in
thermosetting material
IP66 / IP67


| Poles | Rated current/voltage | Enclosure dimensions (mm) | Hole type | Palazzoli Code | Pack Q.ty |
|-------|--------------------------|---------------------------------|---|-------------------|--------------|
| 1 NA | 10A 400V~ (2D - 3G) | 62x80x51 |  | 261435EX | 1 |
| 1 NA | 10A 400V~ (2D - 3G) | 62x80x51 |  | 261403EX | 1 |
| 1 NC | 10A 400V~ (2D - 3G) | 62x80x51 |  | 261445EX | 1 |
| 1 NC | 10A 400V~ (2D - 3G) | 62x80x51 |  | 261413EX | 1 |

Characteristics:

code 261435EX and code 261445EX can be used with two opposite entries using the gas cable gland code 580102EX. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected. Corrosion resistant non-loosening terminals.



TAIS-MIGNON-Ex SERIES
ATEX on-off push-button panel in
watertight wall-mounted enclosure
in thermosetting material
IP66 / IP67





| Rated current/voltage | Enclosure dimensions (mm) | Hole type | Palazzoli Code | Pack Q.ty |
|--------------------------|---------------------------------|---|-------------------|--------------|
| 10A 400V~ (2D - 3G) | 62x80x51 |  | 261433EX | 1 |

Characteristics:

it can be used with two opposite entries using the gas cable gland code 580102EX. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected. Corrosion resistant non-loosening terminals.



TAIS-MIGNON-Ex SERIES
ATEX signal lamps in watertight
wall-mounted enclosure in
thermosetting material
with E14 lampholder
IP65

| Diffuser colour | Rated voltage | Enclosure dimensions (mm) | Hole type | Palazzoli Code | Pack Q.ty |
|--------------------|------------------|---------------------------------|---|-------------------|--------------|
| Red | 250V | 62x80x78 |  | 800061EX | 1 |
| Green | 250V | 62x80x78 |  | 800062EX | 1 |
| Yellow | 250V | 62x80x78 |  | 800064EX | 1 |
| Transparent | 250V | 62x80x78 |  | 800063EX | 1 |

Characteristics:

it can be used with two opposite entries using the gas cable gland code 580102EX. Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration even after frequent removal and for temperature variations greater than expected. Corrosion resistant non-loosening terminals. Polycarbonate diffuser. Lampholder E14 for 3C bulbs, 12W max (bulb not supplied).

THE TECHNIQUE



RONDÒ-EX SERIES - SMALL WALL-MOUNTED DEVICES IN ALUMINIUM ALLOY FOR POTENTIALLY EXPLOSIVE ATMOSPHERES

This range is composed of a well-studied series of devices for controlling, using energy and light signalling, marked by an unusual bulbous shape and made of die-cast aluminium alloy. The switches in this series, made in compliance with IEC 23-50 and 23-9 standards, are protected against explosions in both gaseous and dusty atmospheres by being isolated in a restricted breathing enclosure which conforms to the IEC EN50021 Standard. This is a complete and well-constructed range of control, detection and signalling devices, characterised by a high level of protection against both the entry of solid bodies, dust and water and against impacts and vibrations, which enables the functionality and simplicity of classic equipment for domestic and similar use to be extended to places with explosion danger.

APPLICATIONS:

pharmaceutical and chemical industries, petrol stations, heating plants, large kitchens, garages, both in areas 2 (compulsory) and NE areas (recommended); carpenteries, plastic-laminated board working, sugar-works, mills, farmyards, barns both in areas 22 (compulsory) and NE areas (recommended).

THE ADVANTAGES



SAFE

They come with earth terminals both inside and outside the enclosures, capable of correctly connecting the earth conductor.



EASY TO INSTALL

All wall-mounted enclosures have Gas threaded holes for entering the cables. The cable glands supplied can be replaced by normal universal fittings for entering the pipe.



greater resistance

These products are made of die-cast aluminium alloy UNI 5076 AC-46100DF and powder painted with polymerized non-scratch paint at 180°C, which also makes them suitable for environments with the presence of abrasive elements. A special chrome treatment applied before painting guarantees protection against corrosion. The walls have a minimum thickness of 3 mm, ensuring outstanding impact resistance (30 Joules).



GUARANTEED PROTECTION

Practical external housings allow you to install the fixtures without making holes inside, whilst ensuring that the IP55 protection rating is maintained over time.

RONDÒ-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



RONDÒ-EX SERIES
ATEX wall-mounted switches
in watertight aluminium alloy
enclosure
IP65

| Poles | Rated current/voltage | Cable gland type | Palazzoli Code | Pack Q.ty |
|-------|-----------------------|------------------|-----------------|-----------|
| 1 | 16A 250V~ 10A 400V~ | 1x1/2" | 201151EX | 1 |
| 2 | 16A 250V~ 10A 400V~ | 1x1/2" | 201152EX | 1 |
| 2 | 16A 250V~ 10A 400V~ | 2x1/2" | 201162EX | 1 |

Equipment and characteristics: see the following table.



RONDÒ-EX SERIES
ATEX wall-mounted two-way
switches in watertight aluminium
alloy enclosure
IP65

| Poles | Rated current/voltage | Cable gland type | Palazzoli Code | Pack Q.ty |
|-------|-----------------------|------------------|-----------------|-----------|
| 1 | 16A 250V~ 10A 400V~ | 1x1/2" | 201156EX | 1 |
| 1 | 16A 250V~ 10A 400V~ | 2x1/2" | 201166EX | 1 |

Equipment:

with 1/2" gas cable glands. Earth screws inside and outside the box.

Characteristics:

Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration without maintenance. Corrosion resistant non-loosening terminals.



RONDÒ-EX SERIES

ATEX wall-mounted selector
switch in watertight aluminium
alloy enclosure
IP65

| Poles | Rated current/voltage | Cable gland type | Palazzoli Code | Pack Q.ty |
|-------|-----------------------|------------------|-----------------|-----------|
| 1 | 16A 250V~ 10A 400V~ | 1x1/2" | 201155EX | 1 |

Equipment and characteristics: see the following table.



RONDÒ-EX SERIES

ATEX wall-mounted push-button
in watertight aluminium alloy
enclosure
IP65

| Poles | Rated current/voltage | Cable gland type | Palazzoli Code | Pack Q.ty |
|-------|-----------------------|------------------|-----------------|-----------|
| 1 NO | 10A 400V~ | 1x1/2" | 261021EX | 1 |

Equipment:

with 1/2" gas cable glands. Earth screws inside and outside the box.

Characteristics:

Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base to ensure limited respiration without maintenance. Corrosion resistant non-loosening terminals.



RONDÒ-EX SERIES

ATEX wall-mounted signal
lamps in watertight aluminium
alloy enclosure
IP54

| Diffuser colour | Rated voltage | Max lamp power (W) | Cable gland type | Palazzoli Code | Pack Q.ty |
|-----------------|---------------|--------------------|------------------|-----------------|-----------|
| Red | 250V | 12 | 1x1/2" | 800121EX | 1 |
| Green | 250V | 12 | 1x1/2" | 800122EX | 1 |
| Transparent | 250V | 12 | 1x1/2" | 800123EX | 1 |

Equipment:

with 1/2" gas cable gland. External earth scrow.

Characteristics:

lampholder E14 for 3C bulbs, 12W max (bulb not supplied).



RINO-EX

329

Oval lighting fixtures in aluminium alloy IP65



RINO-EX

329

Round lighting fixtures in aluminium alloy IP65

RINO-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287



RINO-EX SERIES

RAL 7035 grey ATEX watertight oval lighting fixtures in aluminium alloy, tropicalized steel wire protective cage and glass diffuser 250V - IP65

| Max lamp power (W) | Lampholder type | Cable gland entry 1/2" | Palazzoli Code | Pack Q.ty |
|--------------------|-----------------|------------------------|-----------------|-----------|
| 60 | E27 | 1 | 831072EX | 1 |
| 100 | E27 | 1 | 831172EX | 1 |
| 100 | E27 | 2 | 831192EX | 1 |

Equipment:

cable entries with 1/2" gas cable gland. Internal earth screws.

Characteristics:

porcelain lampholder. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.



RINO-EX SERIES

RAL 7035 grey ATEX watertight oval lighting fixtures in aluminium alloy, die-cast cage and glass diffuser - 250V - IP65

| Max lamp power (W) | Lampholder type | Cable gland entry 1/2" | Palazzoli Code | Pack Q.ty |
|--------------------|-----------------|------------------------|-----------------|-----------|
| 200 | E27 | 1 | 831275EX | 1 |
| 200 | E27 | 2 | 831295EX | 1 |
| 5-7-9 | G23 | 1 | 831954EX | 1 |

Equipment:

cable entries with 1/2" gas cable gland. Internal earth screws.

Characteristics:

porcelain lampholder. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.



RINO-EX SERIES

RAL 7035 grey ATEX watertight round lighting fixture in aluminium alloy, tropicalized steel wire protective cage and glass diffuser 250V - IP65

| Max lamp power (W) | Lampholder type | Cable gland entry 1/2" | Palazzoli Code | Pack Q.ty |
|--------------------|-----------------|------------------------|-----------------|-----------|
| 100 | E27 | 1 | 830072EX | 1 |

Equipment:

cable entries with one 1/2" gas cable gland. Internal earth screws.

Characteristics:

porcelain lampholder. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.

Lights without Shadows





RINO-EX

332

Stainless steel lighting fixtures with white reflector IP66



RINO-EX

333

Stainless steel lighting fixtures with aluminium reflector IP66



RINO

334

Technical accessories

STAINLESS STEEL LIGHTING FIXTURES

RINO-EX series

PRODUCT SPECIFICATIONS

Conformity to Standards: GAS: EN 60079-15
DUSTS: EN 61241-1

Conformity to directives: ATEX 94/9/CE

ZONE 2, 21 and 22

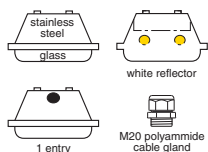
Certifications: European Certification Consortium / IMQ



For classifications of each item see page 286-287

RINO-Ex SERIES

ATEX stainless steel-glass lighting fixtures with white reflector and **electromagnetic** power supply 230V - 50/60 Hz - IP66



| Lamp power (W) | Lampholders and lamps | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------|-----------------------|-----------------|-----------------|-----------|
| 1x18 | G13 T8 | 600x200x100 | 822101EX | 1 |
| 2x18 | G13 T8 | 600x200x100 | 822102EX | 1 |
| 3x18 | G13 T8 | 600x200x100 | 822103EX | 1 |
| 1x36 | G13 T8 | 1300x200x100 | 822201EX | 1 |
| 2x36 | G13 T8 | 1300x200x100 | 822202EX | 1 |
| 3x36 | G13 T8 | 1300x200x100 | 822203EX | 1 |

Equipment:

M20 polyamide cable gland.

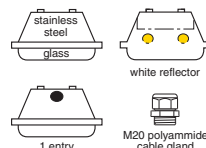
Pair of hooks for pendant installation.

Characteristics:

AISI 304 stainless steel body and hooks. Diffuser in tempered glass with an impact resistance of 10J. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.

RINO-Ex SERIES

ATEX stainless steel-glass lighting fixtures with white reflector and **electronic** power supply 230V - 50/60 Hz - IP66



| Lamp power (W) | Lampholders and lamps | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------|-----------------------|-----------------|-----------------|-----------|
| 1x54 | G5 T5 | 1300x200x100 | 822961EX | 1 |
| 2X54 | G5 T5 | 1300x200x100 | 822962EX | 1 |

Equipment:

M20 polyamide cable gland.

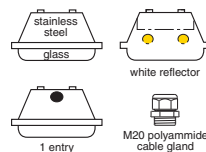
Pair of hooks for pendant installation.

Characteristics:

AISI 304 stainless steel body and hooks. Diffuser in tempered glass with an impact resistance of 10J. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.

RINO-Ex SERIES

ATEX stainless steel-glass lighting fixtures with white reflector for **emergency** 230V - 50/60 Hz - IP66



| Lamp power (W) | Lampholders and lamps | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------|-----------------------|-----------------|-----------------|-----------|
| (1+1)x36 | G13 T8 | 1300x200x100 | 822211EX | 1 |

Equipment:

M20 polyamide cable gland.

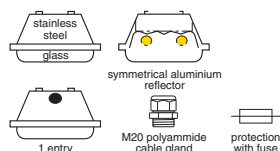
Pair of hooks for pendant installation.

Characteristics:

permanent emergency wiring on a single lamp, Ni-Cd battery, inverter, 1h autonomy, 24h recharge with the possibility of inhibition. AISI 304 stainless steel body and hooks. Diffuser in tempered glass with an impact resistance of 10J. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a rigid base.

RINO-Ex SERIES

ATEX stainless steel-glass lighting fixtures with aluminium reflector and **electromagnetic** power supply 230V - 50/60 Hz - IP66



| Lamp power (W) | Lampholders and lamps | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------|-----------------------|-----------------|-----------------|-----------|
| 2x18 | G13 T8 | 600x200x100 | 820102EX | 1 |
| 2x36 | G13 T8 | 1300x200x100 | 820202EX | 1 |

Equipment:

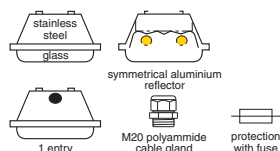
ultra-polished aluminium reflector. M20 brass cable gland. Pair of hooks for pendant installation.

Characteristics:

AISI 304 stainless steel body and hooks. Diffuser in tempered glass with an impact resistance of 10J. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.

RINO-Ex SERIES

ATEX stainless steel-glass lighting fixtures with aluminium reflector and **electronic** power supply - 230V - 50/60 Hz - IP66



| Lamp power (W) | Lampholders and lamps | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------|-----------------------|-----------------|-----------------|-----------|
| 2x18 | G13 T8 | 600x200x100 | 820132EX | 1 |
| 2x36 | G13 T8 | 1300x200x100 | 820232EX | 1 |

Equipment:

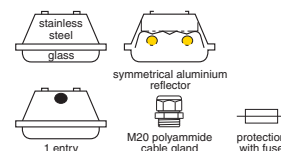
ultra-polished aluminium reflector. M20 brass cable gland. Pair of hooks for pendant installation.

Characteristics:

AISI 304 stainless steel body and hooks. Diffuser in tempered glass with an impact resistance of 10J. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.

RINO-Ex SERIES

ATEX stainless steel-glass lighting fixtures with aluminium reflector for **emergency** 230V - 50/60 Hz - IP66



| Lamp power (W) | Lampholders and lamps | Dimensions (mm) | Palazzoli Code | Pack Q.ty |
|----------------|-----------------------|-----------------|-----------------|-----------|
| (1+1)x18 | G13 T8 | 600x200x100 | 820111EX | 1 |
| (1+1)x36 | G13 T8 | 1300x200x100 | 820211EX | 1 |

Equipment:

ultra-polished aluminium reflector. M20 brass cable gland. Pair of hooks for pendant installation.

Characteristics:

permanent emergency wiring on a single lamp, Ni-Cd battery, inverter, 1h autonomy, 24h recharge with the possibility of inhibition. AISI 304 stainless steel body and hooks. Diffuser in tempered glass with an impact resistance of 10J. Corrosion resistant non-loosening terminals, non-sparking lampholder (in compliance with CEI regulation of Committee 34). Captive gaskets in non-ageing elastomer fastened to a non-deformable rigid base.

STAINLESS STEEL LIGHTING FIXTURES

RINO SERIES

Pair of hooks for pendant installation of painted stainless steel lighting fixtures



| Manufactured material | Palazzoli Code | Pack Q.ty |
|--------------------------|----------------|-----------|
| AISI 304 stainless steel | 820001 | 1 |

Equipment:

lighting fixture washers and fixing nuts

RINO SERIES

Pair of swivelling supports for wall and ceiling installation of painted stainless steel lighting fixtures



| Rotating angle | Manufactured material | Palazzoli Code | Pack Q.ty |
|----------------|--------------------------|----------------|-----------|
| ± 75° | AISI 304 stainless steel | 820000 | 1 |

RINO SERIES

High output ultra-polished aluminium symmetrical reflectors



| Manufactured material | For lighting fixtures | Palazzoli Code | Pack Q.ty |
|-----------------------|-----------------------|----------------|-----------|
| Aluminium | 1x18W and 3x18W | 820002 | 1 |
| Aluminium | 1x36W and 3x36W | 820003 | 1 |