



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EXA 15.0004X

Issue No: 2

Certificate history:

Status: Current

Issue No. 2 (2017-09-12)

Issue No. 1 (2015-07-17)

Date of Issue: 2017-09-12

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Issue No. 0 (2015-05-12)

Applicant: **Palazzoli S.p.A.**
Via F. Palazzoli 31
25128 Brescia
Italy

Equipment: **Interlocked sockets-outlet with or without junction boxes type TAIS – EX SERIES /
46****EX; 47****EX; 53224*EX**

Optional accessory:

Type of Protection: **nR, tb**

Marking:

Ex nR IIC T6...T5 Gc

Ex tb IIIC T80°C....T140°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Damir Korunić

Position:

Director General

Signature:

(for printed version)

Date:



Damir Korunić
12-09-2017

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-
Agencija)**
Industrijska 25
HR-10431 Sveta Nedelja
Croatia





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Manufacturer: **Palazzoli S.p.A.**
Via F. Palazzoli 31
25128 Brescia
Italy

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[HR/EXA/ExTR15.0013/00](#)

[HR/EXA/ExTR15.0013/01](#)

[HR/EXA/ExTR15.0013/02](#)

Quality Assessment Report:

[IT/IMQ/QAR14.0001/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The interlocked sockets-outlet TAIS – EX SERIES / 46****EX; 47****EX; 53224*EX are designed in three versions:

- Interlocked sockets with fuses. Inside the socket are present functional assemblies connected in series: lock switch – fuseholder – socket. Abbreviation for this version is PR.FUS.
- Interlocked sockets with magnetotermic. Inside the socket are present functional assemblies connected in series: magnetotermicswitch – socket. Abbreviation for this version is PR.MT.
- Direct interlocked sockets. Inside the socket are present functional assemblies connected in series: lock switch – socket. Abbreviation for this version is PR.DIR.

The interlocked sockets-outlet are intended to be installed in stand-alone with or without terminal box or in assembly with two sockets outlets and one terminal box.

Manufacturer's instruction for use No. C010152, issue 3, dated 2017-04.

(See attachments.)

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The cable connection of certain versions of the equipment shall be suitable for temperature above 80°C as stated in manufacturer's instructions for use.
2. Appropriate method of installation, maintenance and operation, should prevent accumulation of static charge on the equipment because surface resistance of handle material is higher than $10^9 \Omega$.
3. The equipment can be installed in stand-alone mode (with or without junction box) or as a combination with two sockets and one junction box.
4. The equipment is intended for fixed installation and must be installed in vertical position.
5. The interlocked socket outlets shall be installed only with appropriate separately certified plug.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

New ambient temperature range (-40°C up to +65°C) and marking on products.

Changing on raw material for internal operating shaft, gaskets under handle and locking ring (internal lid 63A version).

Annex:

[IECEx_EXA150004_02_Socket_TAISEX_Palazzoli ANNEX_final.pdf](#)

The interlocked sockets-outlet TAIS – EX SERIES / 46****EX; 47****EX; 53224*EX are designed in three version:

- Interlocked sockets with fuses. Inside the socket are present functional assemblies connected in series: lock switch – fuse holder - socket. Abbreviation for this version is PR.FUS.
- Interlocked sockets with magnetotermic. Inside the socket are present functional assemblies connected in series: magnetotermic switch – socket. Abbreviation for this version is PR.MT.
- Direct interlocked sockets. Inside the socket are present functional assemblies connected in series: lock switch - socket. Abbreviation for this version is PR.DIR.

The interlocked sockets-outlet are intended to be installed in stand-alone with or without terminal box or in assembly with two sockets outlets and one terminal box.

The type of interlocked sockets-outlet with fuse (PR.FUS.) are listed in following table:

Product group	Rated current [A] and EPL	N° poles	Voltage [V]	Hourly reference	Code
S.FUSE PR.FUS.	16 (Gc/Db)	2P+PE / 2P+T	110	4	463124EX
		3P+PE / 3P+T			463134EX
		3P+N+PE / 3P+N+T			463144EX
		2P+PE / 2P+T	230	6	463126EX
		3P+PE / 3P+T			463139EX
		3P+N+PE / 3P+N+T			463149EX
		2P+PE / 2P+T	400	9	463129EX
		3P+PE / 3P+T			463136EX
		3P+N+PE / 3P+N+T			463146EX
		3P+PE / 3P+T	500	7	463137EX
		3P+N+PE / 3P+N+T			463147EX
		2P+PE / 2P+T	>50V	12	463128EX
		2P+N+PE / 2P+N+T			463138EX
		2P+PE / 2P+T		10	463120EX
		3P+PE / 3P+T			463130EX
		3P+N+PE / 3P+N+T			463140EX
		3P+PE / 3P+T	440-460V	11	463131EX
		3P+N+PE / 3P+N+T			463141EX
	20/32 (Gc/Db)	2P+PE / 2P+T	110	4	472611EX
		3P+PE / 3P+T			472711EX
		3P+N+PE / 3P+N+T			472811EX
		2P+PE / 2P+T	230	6	472621EX
		3P+PE / 3P+T			472721EX
		3P+N+PE / 3P+N+T			472821EX
		2P+PE / 2P+T	400	9	472631EX
		3P+PE / 3P+T			472731EX
		3P+N+PE / 3P+N+T			472831EX
		3P+PE / 3P+T	500	6	472751EX
		3P+N+PE / 3P+N+T			472841EX
		2P+PE / 2P+T			472641EX
		2P+N+PE / 2P+N+T	>50V	12	472761EX
		2P+PE / 2P+T			472651EX
		3P+PE / 3P+T			472781EX
		3P+N+PE / 3P+N+T	440-460V	10	472871EX
		3P+PE / 3P+T			472741EX
		3P+N+PE / 3P+N+T			472851EX
		3P+PE / 3P+T	380V/440V	11	472771EX
		3P+N+PE / 3P+N+T			472861EX

Product group	Rated current [A] and EPL	N° poles	Voltage [V]	Hourly reference	Code
S.FUSE PR.FUS.	40 (Gc/Db)	2P+PE / 2P+T	110	4	463324EX
		3P+PE / 3P+T			463334EX
		3P+N+PE / 3P+N+T			463344EX
		2P+PE / 2P+T	230	6	463326EX
		3P+PE / 3P+T			463339EX
		3P+N+PE / 3P+N+T			463349EX
		2P+PE / 2P+T	400	9	463329EX
		3P+PE / 3P+T			463336EX
		3P+N+PE / 3P+N+T			463346EX
		3P+PE / 3P+T	500	7	463337EX
		3P+N+PE / 3P+N+T			463347EX
		2P+PE / 2P+T			463328EX
	63 (Db)	2P+N+PE / 2P+N+T	>50V	12	463338EX
		3P+PE / 3P+T			463331EX
		3P+N+PE / 3P+N+T			463341EX
		2P+PE / 2P+T	110	4	472612EX
		3P+PE / 3P+T			472712EX
		3P+N+PE / 3P+N+T			472812EX
		2P+PE / 2P+T	230	6	472622EX
		3P+PE / 3P+T			472722EX
		3P+N+PE / 3P+N+T			472822EX
		2P+PE / 2P+T	400	9	472632EX
		3P+PE / 3P+T			472732EX
		3P+N+PE / 3P+N+T			472832EX
		3P+PE / 3P+T	500	7	472752EX
		3P+N+PE / 3P+N+T			472842EX
		2P+PE / 2P+T	>50V	12	472642EX
		2P+N+PE / 2P+N+T			472762EX
		3P+PE / 3P+T			472742EX
		3P+N+PE / 3P+N+T	440-460V	11	472852EX
S. MCB PR.MT	16 (Gc/Db)	2P+PE / 2P+T	110	4	464210EX
		3P+PE / 3P+T			464310EX
		3P+N+PE / 3P+N+T			464410EX
		2P+PE / 2P+T	230	6	464220EX
		3P+PE / 3P+T			464320EX
		3P+N+PE / 3P+N+T			464420EX
		2P+PE / 2P+T	400	9	464230EX
		3P+PE / 3P+T			464330EX
		3P+N+PE / 3P+N+T			464430EX
	32 (Gc/Db)	3P+PE / 3P+T	110	4	464711EX
		3P+N+PE / 3P+N+T			464811EX
		2P+PE / 2P+T			464621EX
		3P+PE / 3P+T	230	6	464721EX
		3P+N+PE / 3P+N+T			464731EX
		3P+PE / 3P+T			464831EX
		3P+N+PE / 3P+N+T	400	9	464339EX
		3P+PE / 3P+T			464336EX
		3P+N+PE / 3P+N+T			464346EX
	40 (Gc)	3P+PE / 3P+T	230	9	464722EX
		3P+N+PE / 3P+N+T			464732EX
		3P+PE / 3P+T	400	6	464832EX
		3P+N+PE / 3P+N+T			464832EX

Product group	Rated current [A] and EPL	N° poles	Voltage [V]	Hourly reference	Code	
S. DIR PR.DIR.	16 (Gc/Db)	2P+PE / 2P+T	230	6	467126EX	
		3P+PE / 3P+T	400	6	467136EX	
		3P+N+PE / 3P+N+T			467146EX	
		2P+PE / 2P+T	110	4	467124EX	
		3P+PE / 3P+T			467134EX	
		3P+N+PE / 3P+N+T			467144EX	
		3P+PE / 3P+T	230	9	467139EX	
		3P+N+PE / 3P+N+T			467149EX	
		2P+PE / 2P+T	400	7	467129EX	
		3P+PE / 3P+T	500		467137EX	
		3P+N+PE / 3P+N+T	12	12	467147EX	
		2P+PE / 2P+T			467128EX	
		2P+N+PE / 2P+N+T	>50V	10	467138EX	
		2P+PE / 2P+T			467120EX	
		3P+PE / 3P+T			467130EX	
		3P+N+PE / 3P+N+T	440-460V	11	467140EX	
		3P+PE / 3P+T			467131EX	
		3P+N+PE / 3P+N+T			467141EX	
	32 (Gc/Db)	2P+PE / 2P+T	230	6	470226EX	
		3P+PE / 3P+T	400	6	470236EX	
		3P+N+PE / 3P+N+T			470246EX	
		2P+PE / 2P+T	110	4	470224EX	
		3P+PE / 3P+T			470234EX	
		3P+N+PE / 3P+N+T			470244EX	
		3P+PE / 3P+T	230	9	470239EX	
		3P+N+PE / 3P+N+T			470249EX	
		2P+PE / 2P+T	400	7	470229EX	
		3P+PE / 3P+T	500		470237EX	
		3P+N+PE / 3P+N+T	12	10	470247EX	
		2P+PE / 2P+T			470228EX	
		2P+N+PE / 2P+N+T	>50V	12	470238EX	
		2P+PE / 2P+T			10	470220EX
		3P+PE / 3P+T				470230EX
		3P+N+PE / 3P+N+T	440-460V	11	470240EX	
		3P+PE / 3P+T			470231EX	
		3P+N+PE / 3P+N+T	380V/440V	3	470241EX	
		3P+PE / 3P+T			470233EX	
		3P+N+PE / 3P+N+T			470243EX	
		63 (*) (Gc/Db)	3P+PE / 3P+T	400	6	470336EX
			3P+N+PE / 3P+N+T			470346EX
			2P+PE / 2P+T	110	4	470324EX
			3P+PE / 3P+T			470334EX
			3P+N+PE / 3P+N+T			470344EX
			2P+PE / 2P+T	230	6	470326EX
			3P+PE / 3P+T			470339EX
			3P+N+PE / 3P+N+T	9	9	470349EX
			2P+PE / 2P+T			470329EX
			3P+PE / 3P+T	500	7	470337EX
			3P+N+PE / 3P+N+T			470347EX
			2P+PE / 2P+T	>50V	12	470328EX
	2P+N+PE / 2P+N+T		470338EX			
	3P+PE / 3P+T		440-460V	11	470331EX	
	3P+N+PE / 3P+N+T				470341EX	

(*) The direct 63A interlocked sockets (EPL Gc) installed in distribution board configuration (installed together with junction box) shall be reduced to 50A.

The type of terminal boxes are listed in following table:

Code	EPL	Dimension [mm]
532240EX	Gc / Db	125 x 185 x 125
532242EX	Gc / Db	250 x 185 x 125
532244EX	Gc / Db	380 x 185 x 125

The maximum surface temperature for dust marking EPL Db, temperature class for EPL Gc and ambient temperature depend on rated current:

Version	Rated current, [A]	Tamb	Ex Marking	Tcable
FUS	16	-40°C ÷ +40°C	Ex nR IIC T6 Gc	/
	20			
	40			
MCB	16			
	32			
	40			
DIR	16	-40°C ÷ +50°C	Ex nR IIC T6 Gc	/
		-40°C ÷ +65°C	Ex nR IIC T5 Gc	95°C
	32	-40°C ÷ +50°C	Ex nR IIC T6 Gc	/
		-40°C ÷ +65°C	Ex nR IIC T5 Gc	95°C
	63	-40°C ÷ +50°C	Ex nR IIC T6 Gc	/
		-40°C ÷ +65°C	Ex nR IIC T5 Gc	95°C
FUS	16	-40°C ÷ +40°C	Ex tb IIIC T80°C Db	/
	32		Ex tb IIIC T100°C Db	
	40		Ex tb IIIC T115°C Db	
	63		Ex tb IIIC T115°C Db	105°C
MCB	16	-40°C ÷ +40°C	Ex tb IIIC T80°C Db	/
	32		Ex tb IIIC T100°C Db	
	40		Ex tb IIIC T115°C Db	
	63		Ex tb IIIC T115°C Db	105°C
DIR	16	-40°C ÷ +50°C	Ex tb IIIC T90°C Db	/
		-40°C ÷ +65°C	Ex tb IIIC T105°C Db	95°C
	32	-40°C ÷ +50°C	Ex tb IIIC T110°C Db	/
		-40°C ÷ +65°C	Ex tb IIIC T125°C Db	95°C
	63	-40°C ÷ +50°C	Ex tb IIIC T125°C Db	/
		-40°C ÷ +65°C	Ex tb IIIC T140°C Db	95°C

Rated Characteristics:

Switch short circuit conditional current	max 10 kA
Maximum rated voltage	50 / 110 / 230 / 400 / 500 V ac
Rated current	16 / 20 / 32 / 40 / 63 A
Frequency	50 - 60 Hz or 100 Hz - 300 Hz
Insulation class	II
Ambient temperature	-40 °C ≤ Ta ≤ +65 °C
IP protection degree	IP66 category 1 according to IEC 60529
Maximum number of wires to the terminal	1

Warning labels:

- WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT
- WARNING – DO NOT OPEN WHEN ENERGIZED
- WARNING – USE ONLY FUSES WITH MAXIMUM NOMINAL CAPACITY "I_n" NOT EXCEEDING THE MAXIMUM INDICATED ON THE LABEL OF THE SOCKET AND OF THE TYPE MENTIONED ON THE INSTRUCTIONS
- WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTION
- WARNING - 63A SOCKET IN DISTRIBUTION BOARD WITH JUNCTION BOXES FOR ZONE 2 SHALL BE DERATED TO 50A

Routine tests:

The manufacturer shall carry out the routine tests prescribed in cl. 23.2.3.1 and 23.2.3.2.1.1 of IEC 60079-15.

