Manufacturer COEL MOTORI S.r.l.
Via Campania, 40
20090 - Fizzonasco di Pieve Emanuele (MI)
Tel. : 0039 02 90420039 - Fax.: 0039 02 90420747

	Safety Instructions X touch **Rev.: 3** **Data: 17-01-2025**
	www.coel-is.com

Safety Instructions Pendant Stations ATEX – IEC Ex

DESCRIPTION
The X Touch pendant control stations are built in 5 models. They are made out of an enclosure in aluminum or steel.
Inside the enclosures it is possible to insert switches, thermal protectors and a resistances as anti condensation heater.
The pendant stations are intended to be used in industrial areas and in particular for Hazardous Locations.
For Atex and IECEx zones are 1, 2, 21, 22.

The enclosures are made in Aluminum UNI 8024 or steel C40 or AISI 316 for ATEX and IEC Ex versions.

It is inclued in all of X Touch types one OR.

The X Touch series is built for ATEX-IEC Ex in conformity with:

EN 60079-0:2012
EN 60079-1:2014
EN 60079-31:2014

IECEx:

IEC 60079-0:2012
IEC 60079-1:2014
IEC 60079-31: 2013

Atex is in conformity with 2014/34/EU

The X Touch line is suitable to be installed in hazardous locations

Atex:

Ex II 2G Ex db IIC T6 Gb

Ex II 2D Ex tb IIIC T85°C Db

Tamb: -20°C;+60°C

IECEX:

Ex db IIC T6 Gb

Ex tb IIIC T85°C Db

Tamb: -20°C;+60°C

ELECRICAL FEATURES
Inside built switches are of one type only suitable for VDC250 A1.1 Max or VAC 240V 3A Max 50/60 Hz.

It is also possible to mount anti condensation heaters having the following maximum power 24W as option only.

In order to limit the over temperature of the enclosures when the heater is present, it is applied a thermal protector ***having temperature action at 70°C ±5°C. The thermal protector is of PTO type.***

The external supply cable must have minimum section of 0.75 sqmm per contact and ground as well.
The maximum allowed section is 2 sqmm.

Ground terminals:
X touch stations are provided with 2 ground point connections, one inside terminal box, one outside. Both of them must be connected to wires having section minimum as the phase one.
Connection must be in conformity with EN/IEC 60079-0 tab 10.

Cable Entry

All the devices for cable entry (cable gland, adapters) must be certified with minimum certification level as per valid certification of the pendant station

Ambient temperature -20 +85 °C

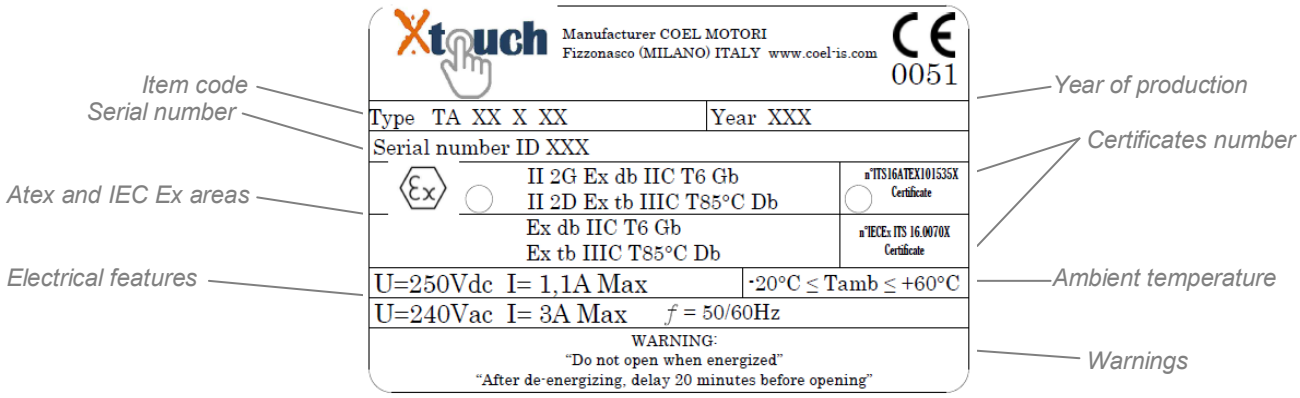
Minimum number of threating as per IEC 60079

Marking and Nomenclature

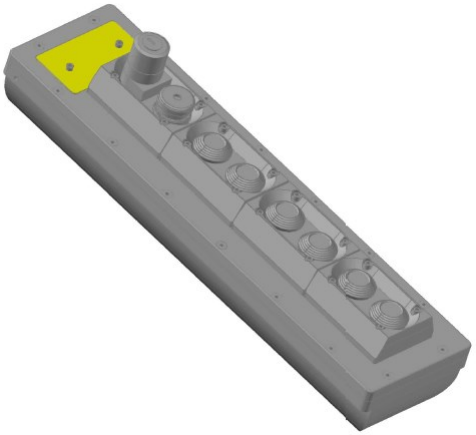
All models Atex and IEC Ex are built in the same way and marked for both certifications as described

Type: TA (means Atex-IEC Ex version)
Number of contacts: 4; 6; 8; 12; 16
If heater is installed: H
In the code indication for threating of cable gland is indicated as follows
NPT 1/2 : N1
NPT 3/4 : N2
NPT 1 : N3
M20x1,5 : M1
M25x1.5 : M2
M32x1.5 : M3

Model type example: TA 8 H M1
a detailed part of nameplate will show the cable entry type



Name plate is made of steel and placed on the station as described in the picture →
In case of double body type, it will be on the right one.



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ADDITIONAL NOTES

Screws are M 5x20 (see G on the exploded view) and M 5x35 (see Q on the exploded view) - Yeld stress 450 N/mm^2.
Screws for closing the cover are of AISI 316 type as per ISO10642 quality A4 resistance class 70.

WARNING

ATEX and IEC EX

a) "Do not open when energized"

b) "After de-energizing, delay 20 minutes before opening"

CLEANING

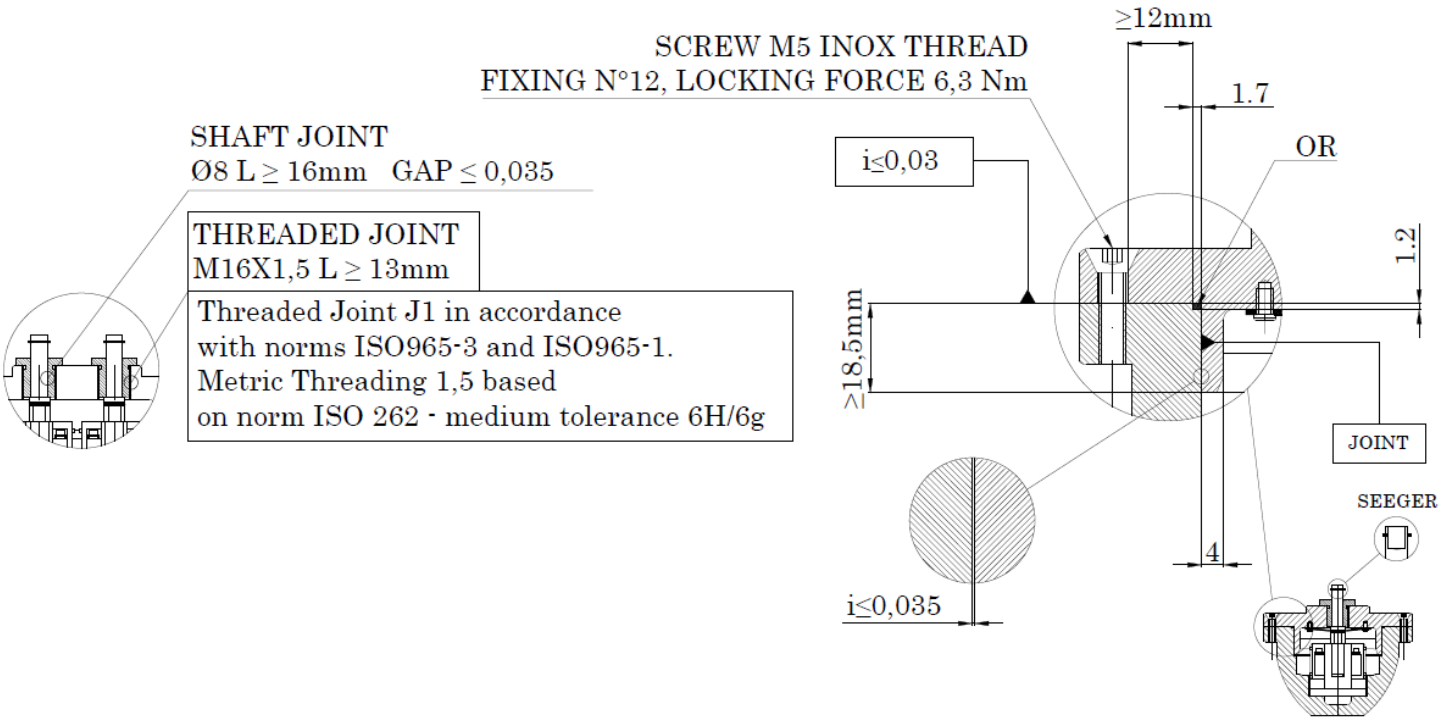
Clean the pendant station every day after usage with an anti static cloth in order to remove dust from the surface

ASSISTANCE

In case of product failure it must be returned to factory for inspection.

Flame joints are not intended to be repaired.

Joints :



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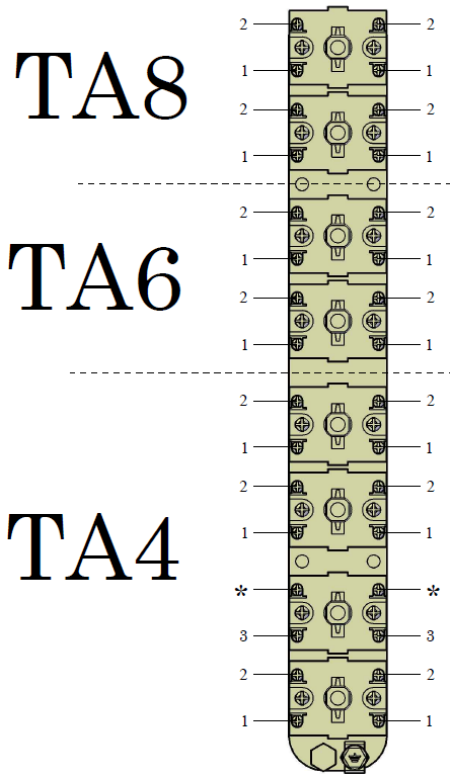
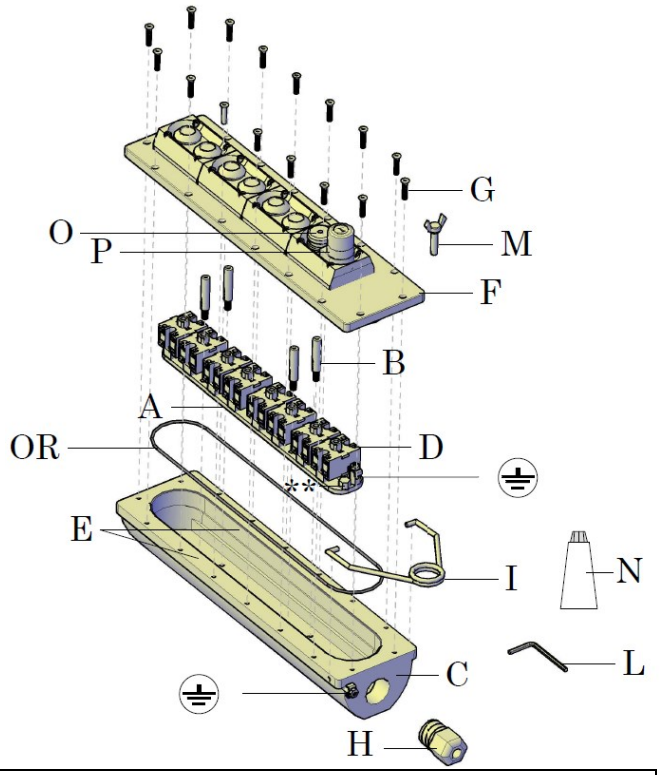
SINGLE BODY TYPE INSTALLATION INSTRUCTIONS





DESIGNATION

TA4= 2 bottoms double step + 1 key (P) + 1 emergency (O)
TA6= 4 bottoms double step + 1 key (P) + 1 emergency (O)
TA8= 6 bottoms double step + 1 key (P) + 1 emergency (O)

-Contacts 1 and 2 are NO
-Contact 1 is activated with the first step of the bottom
-Contact 2 is activated with the second step of the bottom
-Contact 3 is NC
- Key P is a double step key for power on and start on operation
- Emergency bottom O to be manually reactivated in case of use

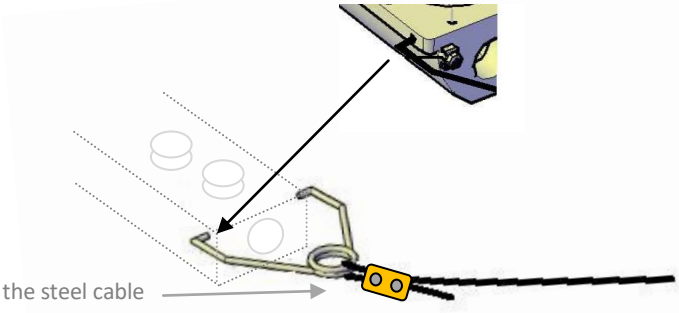
**Terminals without switch to be used to connect the anti condensation heater (if equipped) - Locking force for screws 1 Nm*

***Thermal protector PTO To prevent over heating of anti condensation heater (if equipped)*

INSTALLATION

1) Open the covers F using the screws M
2) Unscrew the B pins using the key L supplied with the pendant station
3) Extract the switches layer A
4) Insert the cable through the conduit or cable gland H (not supplied) and through the hole C
5) Connect the wires to the switches D. Locking force of screws is 1Nm.
6) Lock the switches layer A to the base using the pins B. Locking force is 4,5 Nm.
7) Put the lithium grease N on the lamination junction E of the terminal box cover
8) Close the terminal box F
9) Fix the screws G with a torque value of 6,3Nm
10) Assemble the holding hook I on the base
11) Connect the external ground terminal
12) Fix the steel holding cable to the holding hook*

The holding cable must have a length of 5cm shorter than the power supply cable in order to prevent the cable stress The weight of the pendant station must be hold by the steel holding cable only.



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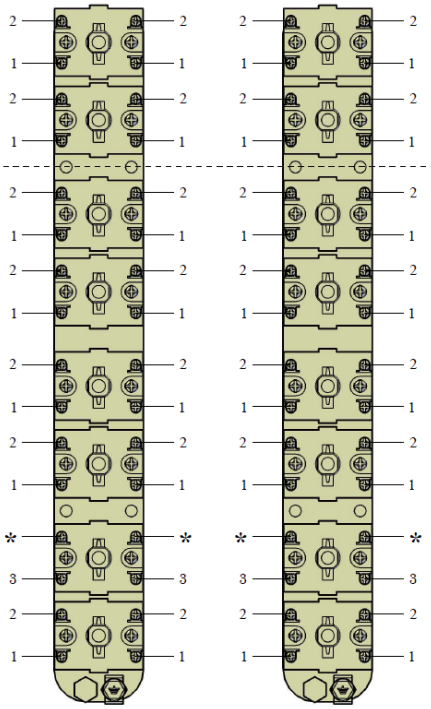
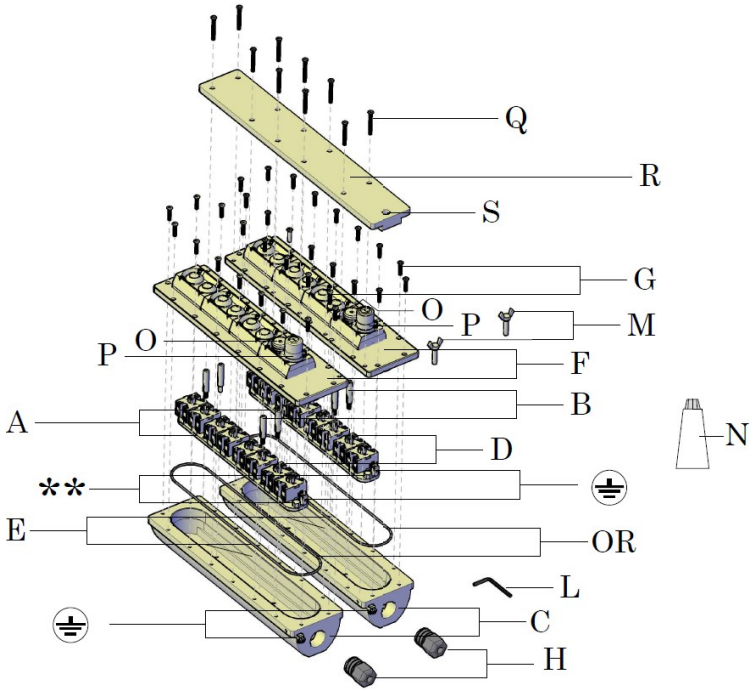
DOUBLE BODY TYPE INSTALLATION INSTRUCTIONS

TA16

TA12





DESIGNATION

TA12= 8 bottoms double step + 2 keys (P) + 2 emergency (O)
TA16= 12 bottoms double step + 2 keys (P) + 2 emergency (O)
-Contacts 1 and 2 are NO
-Contact 1 is activated with the first step of the bottom
-Contact 2 is activated with the second step of the bottom
-Contact 3 is NC
- Key P is a double step key for power on and start on operation
- Emergency bottom O to be manually reactivated in case of use

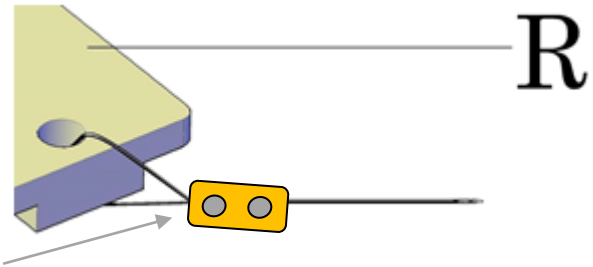
**Terminals without switch to be used to connect the anti condensation heater (if equipped) – Locking force for screws 1 Nm*

***Thermal protector PTO To prevent over heating of anti condensation heater (if equipped)*

INSTALLATION

1) Unscrew the screws Q and remove the junction plate F
2) Open the covers F using the screws M
3) Unscrew the B pins using the key L supplied with the pendant station
4) Extract the switches layer A
5) Insert the cable through the conduit or cable glands H (not supplied) and through the holes C
6) Connect the wires to the switches D. Locking force of screws is 1Nm.
7) Lock the switches layer A to the base using the pins B. locking force is 4,5 Nm.
8) Put the lithium grease N on the lamination junctions E of the terminal box cover
9) Close the terminal boxes F and fix the screws G with a torque value of 6,3Nm and apply the plate R
10) Fix Q with a torque value of 6,3Nm
11) Connect the external ground terminal
12) Fix the steel holding cable to the holding S hole on R plate

The holding cable must have a length of 5cm shorter than the power supply cable in order to prevent the cable stress The weight of the pendant station must be hold by the steel holding cable only.



Use a metal clamp to lock the steel cable

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EU Declaration of conformità

The Manufacturer: Via Campania 40 COEL Motori srl
20090 – Fizzonasco di Pieve Emanuele – MI
ITALY

declares under own sole responsibility that the product:

XTOUCH

Certified: **ITS16ATEX101535X / IECEx ITS 16.0070X**

(The X TOUCH TA product is not affected by the main technical changes of the standard EN IEC 60079-0:2018).

The X Touch TA series is built in conformity with:

Atex,

EN 60079-0:2012
EN 60079-1:2014
EN 60079-31:2014
Atex is in conformity with 2014/34/EU – ATEX 95, group II, category 2GD.

IECEx,

IEC 60079-0:2012
IEC 60079-1:2014
IEC 60079-31:2013

The X Touch line is suitable to be installed in hazardous locations for Atex and IECEx zones are 1, 2, 21, 22.

The X Touch line is suitable to be installed in hazardous locations;

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Ex II 2G Ex db IIC T6 Gb

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Date: 17/01/2025

Managing director: MORENO MOZZATI