


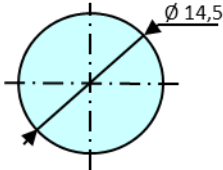

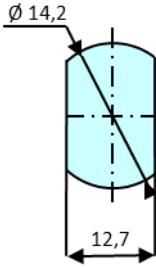

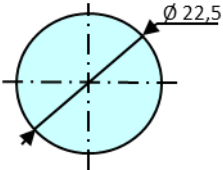

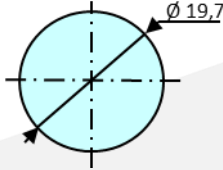

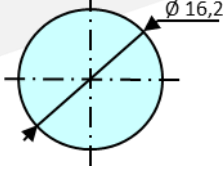


INSTALLATION GUIDE FOR TYPE E SWITCHES




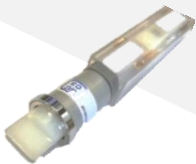



CONTROL AND SIGNALING SOLUTIONS FOR HARSH ENVIRONMENTS

Drillings summary table

Switch	Drilling
E / E-EDM 	
E50 	
EDM 	
EDM-C25 	
EM (CPAI / CPAR / CPBR / CPR) 	

Panel thickness summary table

Switch	Panel thickness (mm)	
	With escutcheon plate or symbol*	Without escutcheon plate or symbol*
E / E-EDM 	1,5 à 3 mm	-
E50 	1,5 à 3 mm	-
EDM 	2 à 4 mm	4 à 7 mm
EDM-C25 	Mounting on our mosaic tiles □ C25	
EM (CPAI / CPAR / CPBR / CPR) 	-	1,5 à 3 mm

i * Values according to MAFELEC supplied escutcheon plates or symbols

* The specifications and drawings given are subject to change and are not binding unless confirmed by our specialists.

Tightening tools and recommended torque values summary table

Switches	Standard mounting wrench	Adapter for torque tightening	Torque tightening	Torque* (N.m)
E / E-EDM 	1SNA357100R1600 			2 N.m (for indication only)
E50 	1SNA357100R1600 			2 N.m (for indication only)
EDM 	1SNA337198R2000 	1SNA910708T1200 	Standard wrench + adapter 	5 N.m
EDM-C25 	1SNA357099R0400 		1SNA910703T0500 	5 N.m
EM (CPAI / CPAR / CPBR / CPCR) 	1SNA357965T0400 		1SNA910712T2500 	5 N.m



* Valeurs recommandées si sollicitations de vibrations / séismes

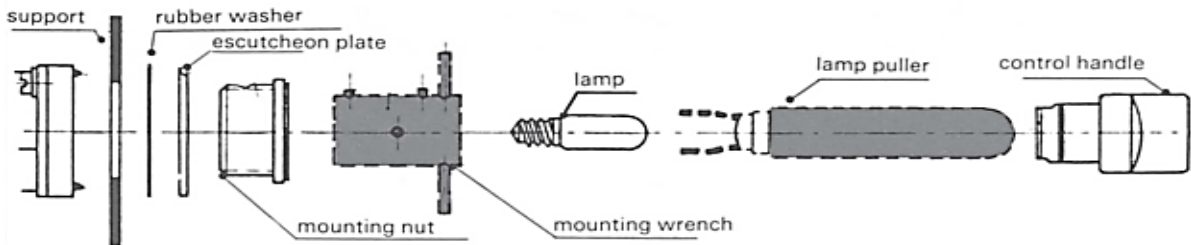
Installation and maintenance

Fixing of switches EDM



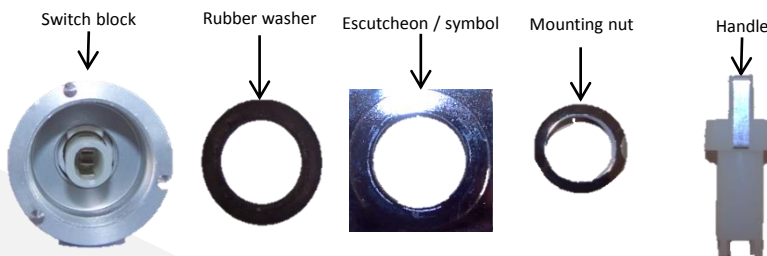
The standard device can be fitted on a 2 to 4 mm thick panel with escutcheon plate or symbol and 4 to 7 mm without.

The product is fixed to the panel through a central nut. 2 people are recommended to fix correctly the switch : a person behind the panel to guide and maintain the product, the other one to set up the escutcheon plate, the central nut and then tighten the switch.



Step 0 (preparation) :

Separate all the components of the front part of the switch as presented below



Step 1 :

Insert the mounting nut on the mounting wrench (reference : 1SNA337198R2000) by pressing on the piston. If the product is equipped with an escutcheon plate, set it up with the rubber washer on the mounting nut.



Installation and maintenance

Fixing of switches EDM



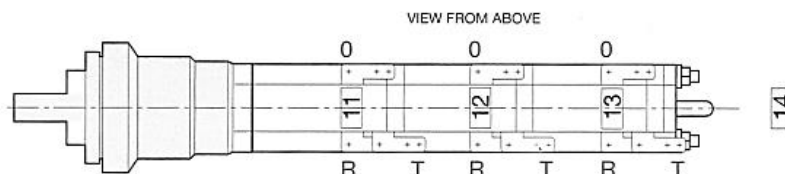
Step 2 :

Position the switch at the rear of the panel by respecting the orientation* and take care of the right alignment with the drill hole. Tighten the switch with the mounting wrench and take care of the right adjustment of its position and the position of escutcheon plate.



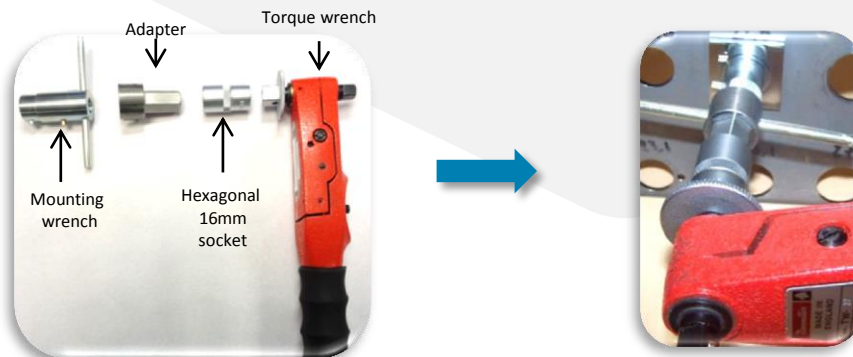
* Normal orientation of the switch :

Label 11 located on the top.



Step 3 : (We recommend to realize this step if the products can be subject to vibrations/seismic stresses. In other cases this step is facultative but recommended).

With a calibrated torque wrench, the standard mounting wrench and the adapter (reference : 1SNA910708T1200) complete the tightening by applying a torque of 5 N.m.



Installation and maintenance

Fixing of switches EDM



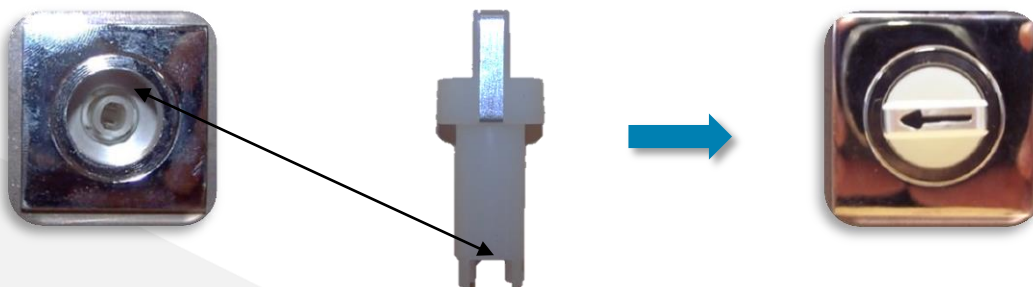
Step 3 : (lamp) *(Ignore this step if the lamp isn't used or if it's installed by factory)*

Set up the lamp in the socket of the switch with your hand.
/!\ Take care that the lamp is correctly installed.



Step 4 :

Set up the handle in abutment of the mechanical transmission part. /!\ A single direction of assembly



Remplacement lampe :

Remove the handle. Use the lamp puller (reference : 1SNA319155R0200) to remove the lamp to be replaced.
Set up the replacement lamp. Set up the handle.



Installation and maintenance



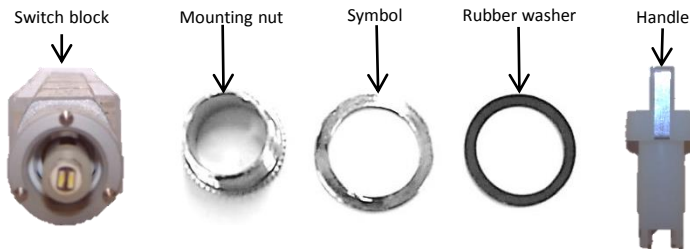
Fixing of switches E or E-EDM

The standard device can be fitted on a 1,5 to 3 mm thick panel.

The product is fixed to the panel through a central nut. 2 people are recommended to fix correctly the switch : a person behind the panel to guide and maintain the product, the other one to set up the escutcheon plate, the central nut and then tighten the switch.

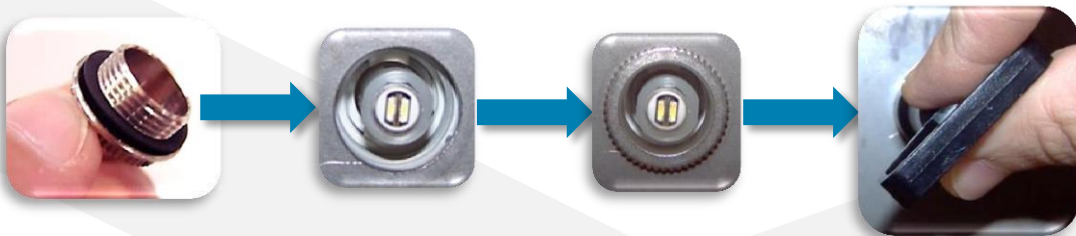
Step 0 : (preparation)

Separate all the components of the front part of the switch as presented below.



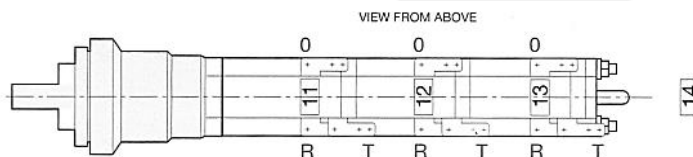
Step 1 :

Position the switch at the rear of the panel by respecting the orientation* and take care of the right alignment with the drill hole. Set up the mounting nut and tighten the switch with the mounting wrench (reference : 1SNA357100R1600) and take care of the right adjustment of its position



* Normal orientation of the switch:

Label 11 located on the top.



Installation and maintenance

Fixing of switches E or E-EDM

Step 2' : (lamp) *(Ignore this step if the lamp isn't used or if it's installed by factory)*

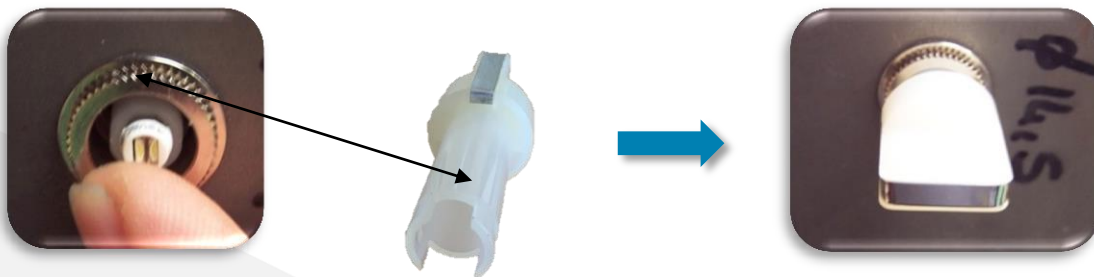
Set up the lamp in the socket of the switch with your hand.

/!\ Take care that the lamp is correctly installed.



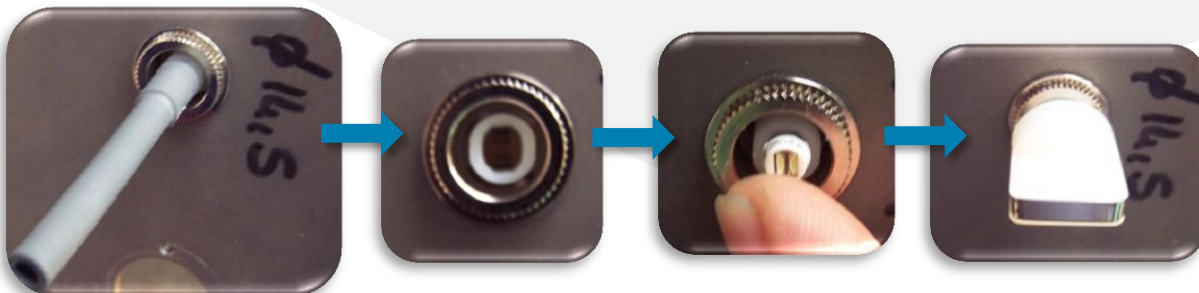
Step 3 :

Set up the handle in abutment of the mechanical transmission part. /!\ A single direction of assembly



Lamp replacement :

Remove the handle. Use the lamp puller (reference : 1SNA319155R0200) to remove the lamp to be replaced. Set up the replacement lamp. Set up the handle.



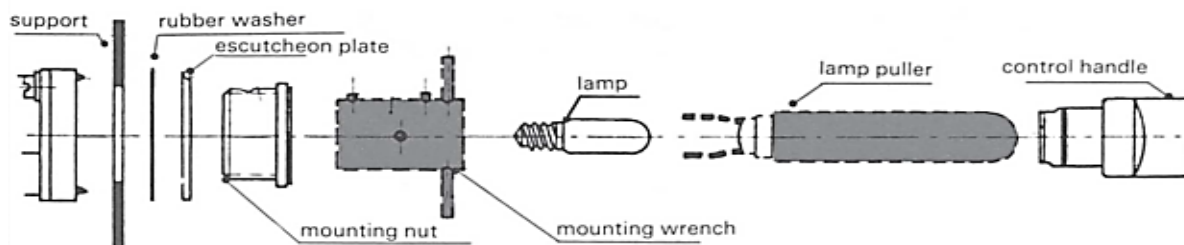
Installation and maintenance

Fixing of switches EDM-C25



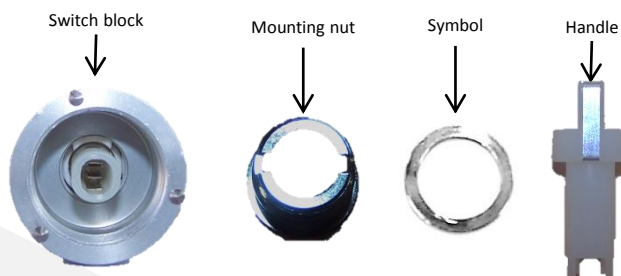
The standard device can be fitted on a □ C25 MAFELEC Mosaic panel .

The product is fixed to the panel through a central nut. 2 people are recommended to fix correctly the switch : a person behind the panel to guide and maintain the product, the other one to set up the escutcheon plate, the central nut and then tighten the switch.



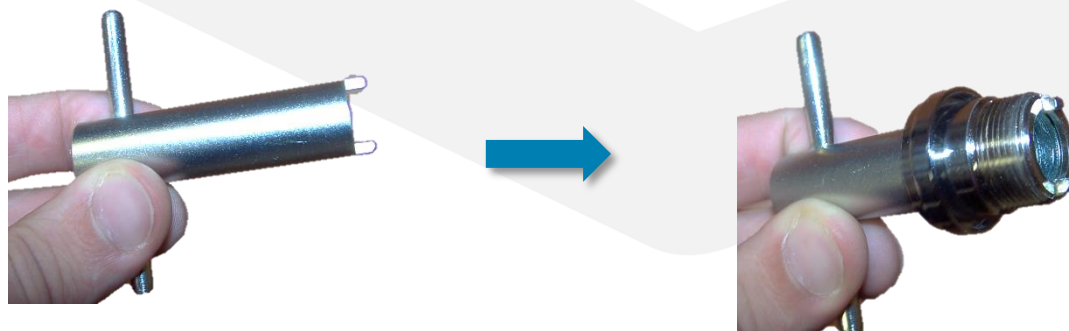
Step 0 (preparation) :

Separate all the components of the front part of the switch as presented below.



Step 1 :

Set up the mounting nut and the symbol on the mounting wrench (reference: 1SNA357099R0400).



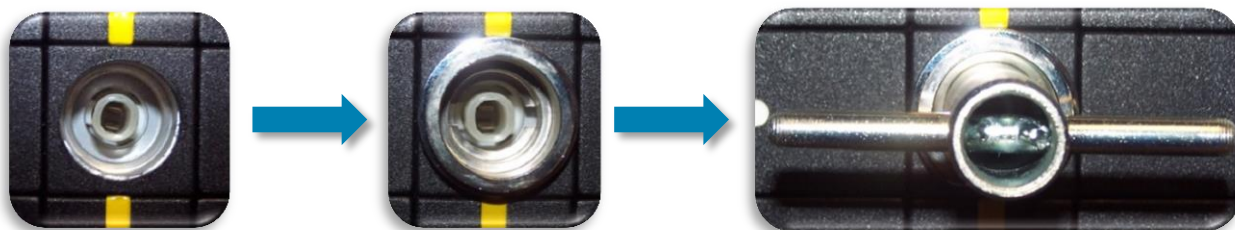
Installation and maintenance

Fixing of switches EDM-C25



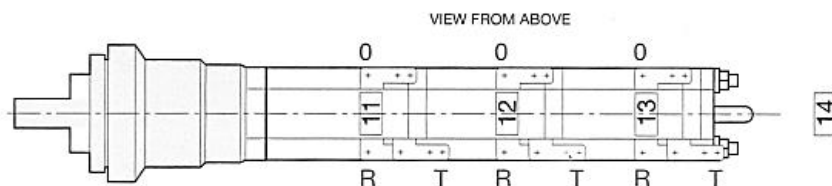
Step 2 :

Position the switch at the rear of the panel by respecting the orientation* and take care of the right alignment with the drill hole. Set up the mounting nut and tighten the switch with the mounting wrench and take care of the right adjustment of its position.



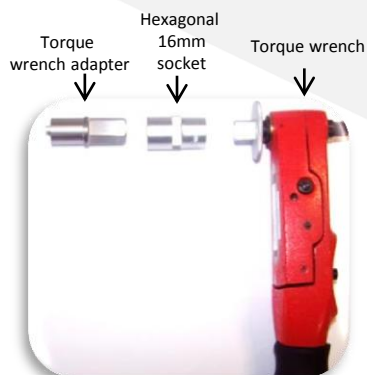
* Normal orientation of the switch:

Label 11 located on the top.



Step 3 : *(We recommend to realize this step if the products can be subject to vibrations/seismic stresses. In other cases this step is facultative but recommended).*

With a calibrated torque wrench, the standard mounting wrench and the adapter (reference: 1SNA910703T0500), complete the tightening by applying a torque of 5 N.m



Installation and maintenance



Fixing of switches EDM-C25

Step 3' : (lamp) *(Ignore this step if the lamp isn't used or if it's installed by factory)*

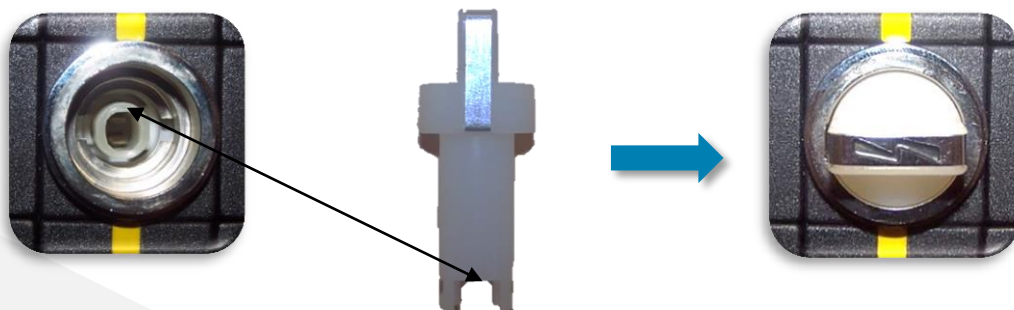
Set up the lamp in the socket of the switch with your hand.

/!\ Take care that the lamp is correctly installed



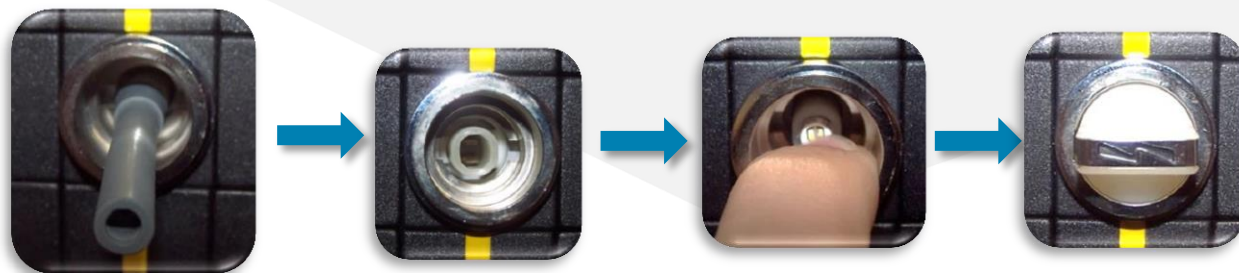
Step 4 :

Set up the handle in abutment of the mechanical transmission part. /!\ A single direction of assembly



Lamp replacement :

Remove the handle. Use the lamp puller (reference : 1SNA319155R0200) to remove the lamp to be replaced. Set up the replacement lamp. Set up the handle.



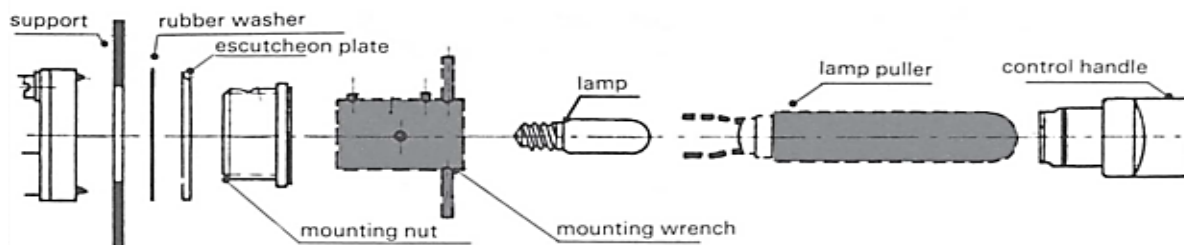
Installation and maintenance

Fixing of switches EM (CPAI/CPAR/CPBR/CPCR)



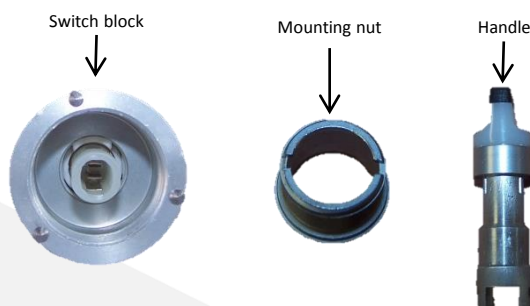
The standard device can be fitted on a 1,5 to 3 mm thick panel or on a □ C25 MAFELEC Mosaic panel

The product is fixed to the panel through a central nut. 2 people are recommended to fix correctly the switch : a person behind the panel to guide and maintain the product, the other one to set up the escutcheon plate, the central nut and then tighten the switch.



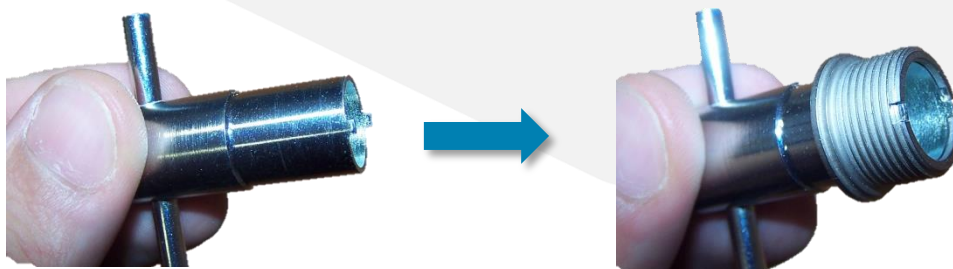
Step 0 (preparation):

Separate all the components of the front part of the switch as presented below.



Step 1 :

Set up the mounting on the mounting wrench(reference: 1SNA357965T0400).



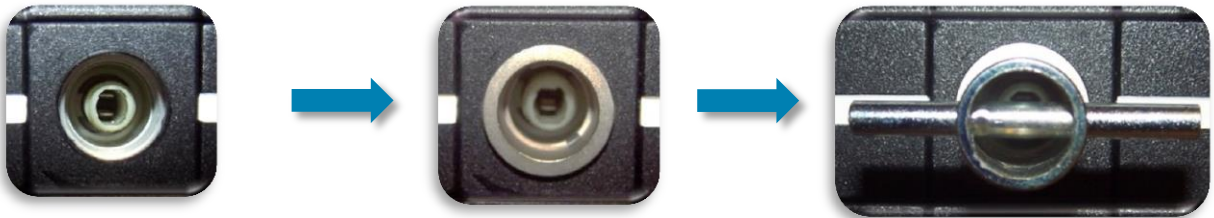
Installation and maintenance

Fixing of switches EM (CPAI/CPAR/CPBR/CPCR)



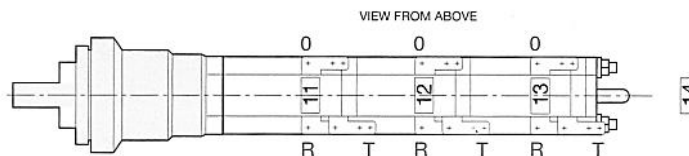
Step 2 :

Position the switch at the rear of the panel by respecting the orientation* and take care of the right alignment with the drill hole. Set up the mounting nut and tighten the switch with the mounting wrench and take care of the right adjustment of its position.



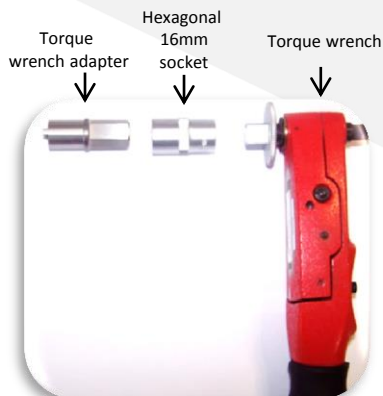
* Normal orientation of the switch:

Label 11 located on the top.



Step 3 : *(We recommend to realize this step if the products can be subject to vibrations/seismic stresses. In other cases this step is facultative but recommended).*

With a calibrated torque wrench, the standard mounting wrench and the adapter (reference: 1SNA910712T2500, complete the tightening by applying a torque of 5 N.m



Installation and maintenance

Fixing of switches EM (CPAI/CPAR/CPBR/CPCR)



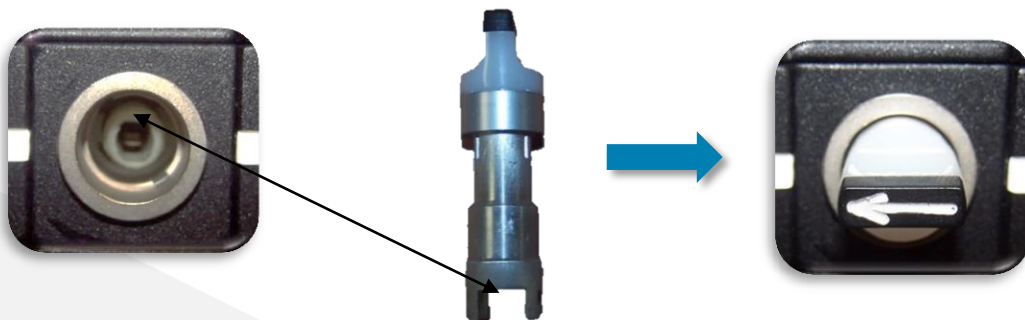
Step 3' : (lamp) *(Ignore this step if the lamp isn't used or if it's installed by factory)*

Set up the lamp in the socket of the switch with your hand.
 /!\ Take care that the lamp is correctly installed



Step 4 :

Set up the handle in abutment of the mechanical transmission part. /!\ A single direction of assembly



Remplacement lampe :

Remove the handle. Use the lamp puller (reference : 1SNA319155R0200) to remove the lamp to be replaced. Set up the replacement lamp. Set up the handle.



Installation and maintenance

Fixing of switches E50

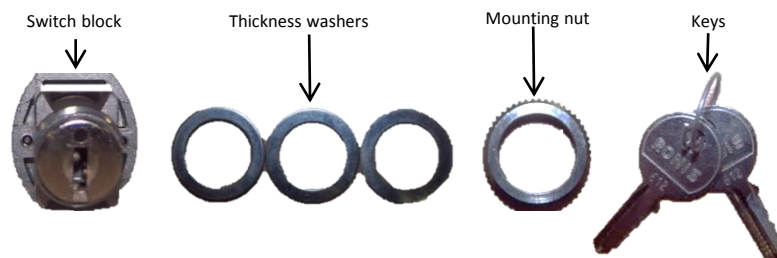


The standard device can be fitted on a 1,5 to 3 mm thick panel.

The product is fixed to the panel through a central nut. 2 people are recommended to fix correctly the switch : a person behind the panel to guide and maintain the product, the other one to set up the escutcheon plate, the central nut and then tighten the switch.

Step 0 : (preparation)

Separate all the components of the front part of the switch as presented below.



Step 1 :

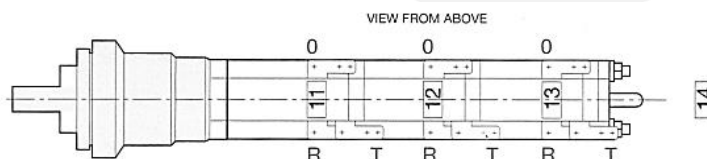
Set up the thickness washers on the switch block.

Position the switch at the rear of the panel by respecting the orientation* and take care of the right alignment with the drill hole. Set up the mounting nut and tighten the switch with the mounting wrench (reference : 1SNA357100R1600) and take care of the right adjustment of its position.



* Normal orientation of the switch:

Label 11 located on the top.



Installation and maintenance

Wiring of type E switches



The standard wiring of these switches is realized by soldering or by Fast-On Clip 2,8 X 0,3.

The maximal section of cable is 1mm².

For a soldered wiring, we recommend to use a low power soldering iron (~30W), /!\ No excesses of cleaning products.

We recommend to use a welding product ROHS type Sn96,5/Ag3/Cu0,5 in CA2.

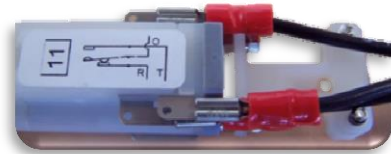
It is advisable to arrange insulating sleeve on the welds.

The cables are wired with a rear cable outlet . The switch is equipped in standard with a plastic cable support (option ST) in order to attach cables with a collar. It can be also equipped with a metallic cable support (option STM)

Soldered wiring (option STM)



Fast-On Clip 2,8 X 0,3 wiring (option ST)



Maintenance of type E switches

No special cleaning is required.

Never use solvents, acids or any chemicals. Do not use sandpaper or other metal abrasive.

For the protection and maintenance of contacts, make sure that the protective cover is correctly installed. After a few years of use, remove simply the dust with a vacuum cleaner or a wet fabric. Use only water to moisten slightly the fabric.

For the maintenance of escutcheon plates or handle, use a fabric slightly moistened with a mixture of water and alcohol (type cleaning glasses).