# OneTrack Installation Guidance Notes

***For NEW products including H Track & H Track End Feeds and Asymmetric, Adapters and Ceiling Bases, please also refer to the detailed installation notes on the product data sheet.***

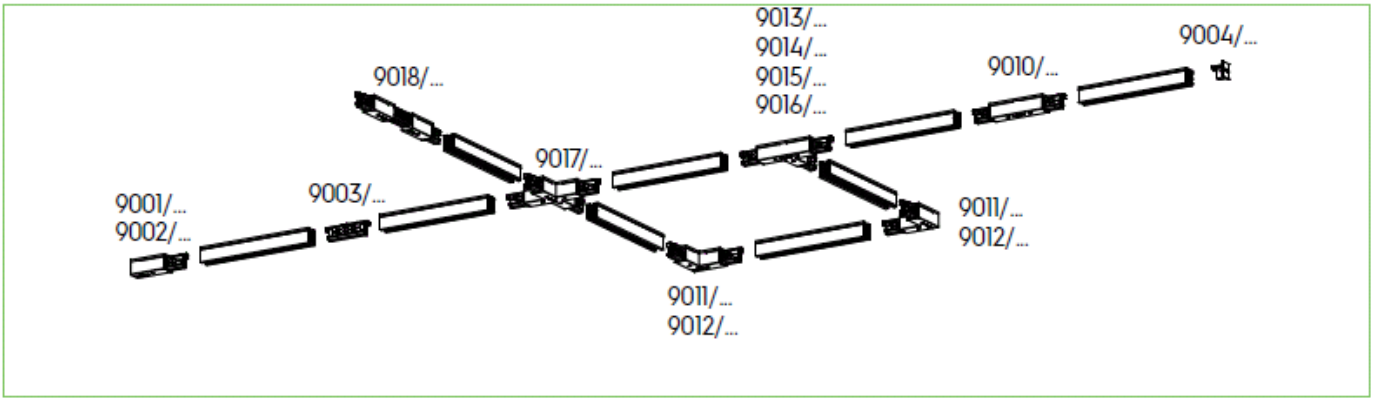
**WARNING**

All the installation and replacement operations must be done by qualified, specialist personnel, according to wiring regulations.

The final user and/or the installer will take the responsibility for ensuring electrical, mechanical and thermal compatibility of the system with the structures on which it will be mounted and the devices connected to it. Do not exceed the listed weight loading indicated in the relevant catalogue section and respect fixing distances during the track mounting.

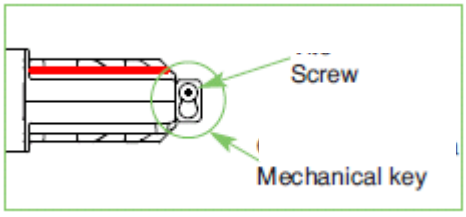
The track, its components and also the adaptors can't be used with accessories without the appropriate approval markings.

A.A.G. Stucchi track can only be used with A.A.G. Stucchi connection joints. A.A.G. Stucchi connection joints can only be used with A.A.G. Stucchi tracks.

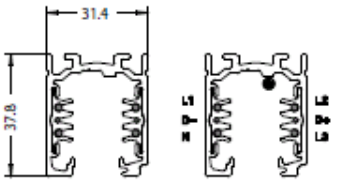



End-feeds and connection joints have a mechanical key (with screw as per picture) that must be taken into account in order to choose the right component.

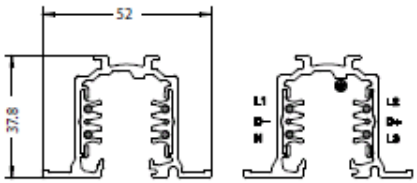
In the catalogue sketches of these articles the position of the key is highlighted with a red line.



**THREE-PHASE TRACK + CONTROL SYSTEM: 9000-**

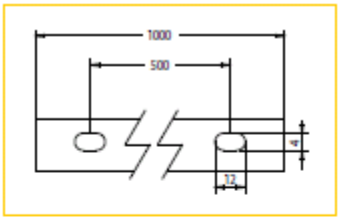



Standard version

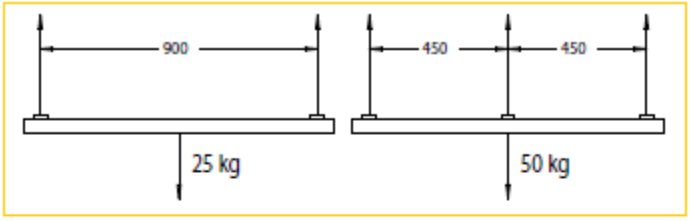



Recessed version

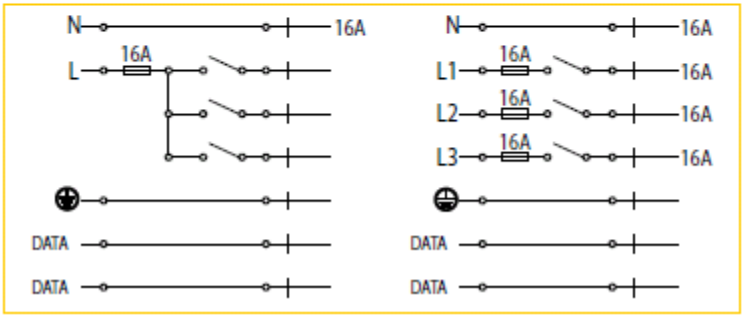
A.A.G. Stucchi OneTrack® system is a 3 phase mixed system with two additional conductors intended to manage a general data signal (for example DALI, DMX, LON, EIB, etc.). The system is EN 60570 certified and its installation must be done by a qualified person with specialist knowledge. There are three possible installation systems: directly on ceiling (using the needlepoints on the track, pic. 1), on ceiling using a metal clip (code S-9000/111) or hanging by a steel cable (S- 9000/211…) together with griplocks, two screw locks (S-9000/212, S-9000/213, S-9000/214, S- 9000/215, S-9000/216) and fixing brackets (S-9000/112…, S-9000/122…, S-9000/113, S-9000/123) without exceeding the maximum loads (pic. 2). During the wiring the electrical scheme of picture 3 must be followed.




Pic. 1 Needlepoints position

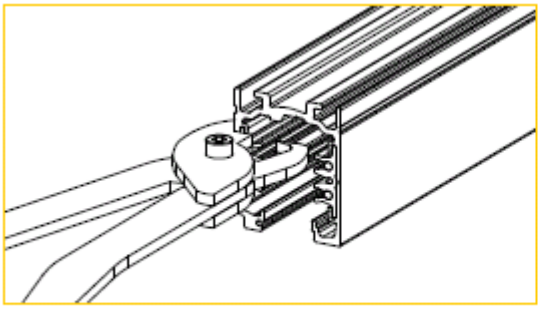



Pic. 2 Load scheme

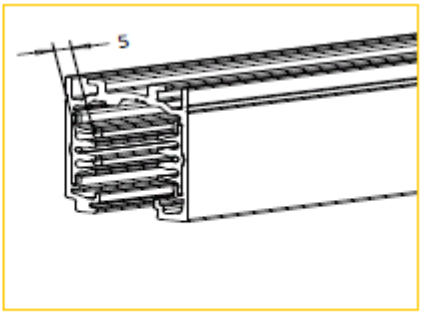



Pic. 3 Electrical scheme

The track bars with length 1-2-3-4 m are provided with the copper conductors already recessed at the ends, in compliance with the relevant safety standard. If it is necessary to shorten the track during installation, after the cut it is necessary to use the special cutting tool (S-9000/T) to recess the 4 conductors (L1-L2-L3-N) at least of 5mm so that the correct air, surface and electrical distances are respected (pic. 4 and 5).



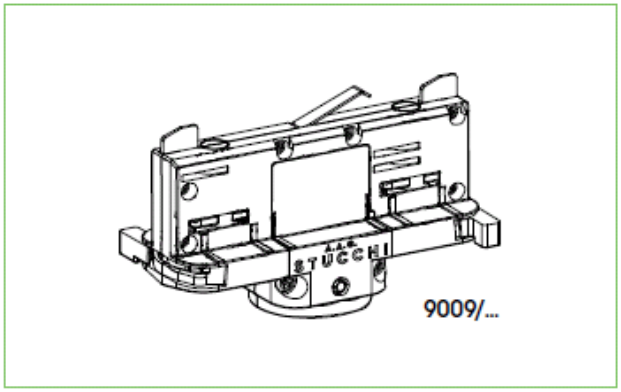
Pic. 4 Recessing track wires

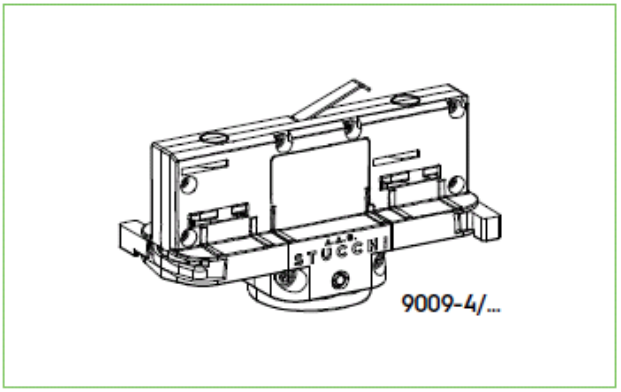



Pic. 5 Minimum recessing

## ELECTRO-MECHANICAL ADAPTOR 9009...

Adaptor is available in two different versions:
9009/… for applications with lighting control system
9009-4/… for applications without lighting control system




## ADAPTOR WIRING

Tinned and stranded conductors are suitable for adaptor wiring. Cross sections from 0.5 mm² to 1 mm² must be used in accordance to the luminaire current value. Wire the adaptor (pic.1)with tool S-9009/T. The tool must be ordered separately. Make sure the polarities marked on the adaptor (L / N / E / D+ / D-) are observed. Push the wire until it is properly inserted into the IDC contact. Two different cable locks versions suitable for cable diameter from 6 mm to 9 mm are available (pictured below): S-9009/10-… (basic), S-9009/BC-… (with plastic grub screw). One of these three accessories (also pictured below) can be used for mounting the luminaries into the adaptor: S-9009/M10+S-9009/D-10, S-9009/M10+S-9009/D-10, S-9009/51 (caution: cable lock S-9009/BC-… cannot be used in combination with these accessories).

*S-9009/10 Internal Cable Lock*

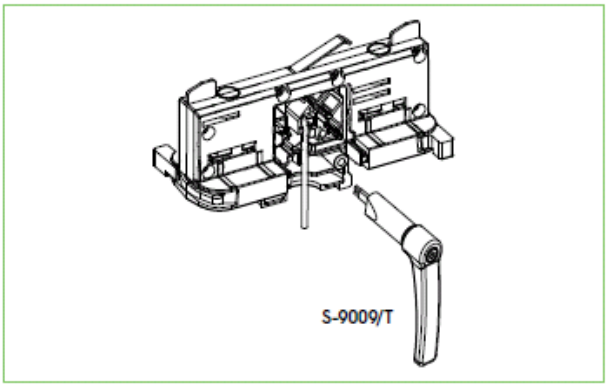
*S-9009/BC External Cord Grip*

*S-9009/51 Aluminium Locking Ring*

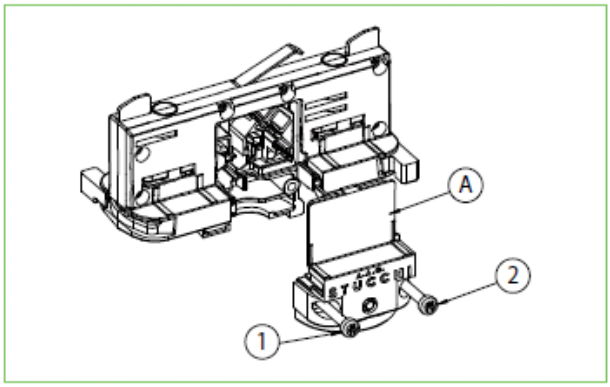
*S-9009/M10(13) Aluminium Nipple*

*S-9009/D-M10(13) Nut for Aluminium Nipple*

Once the luminaire is secured into the adaptor, the proper cover must be positioned (A) by means of two screws (1, 2). Cover and screws are supplied with the adaptor (pic.2).



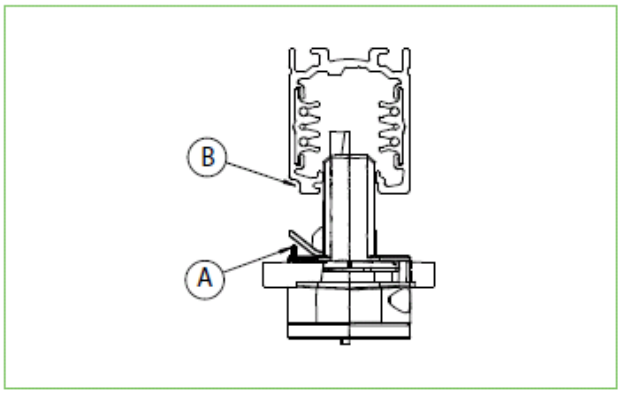

*Pic 1: Adaptor wiring*



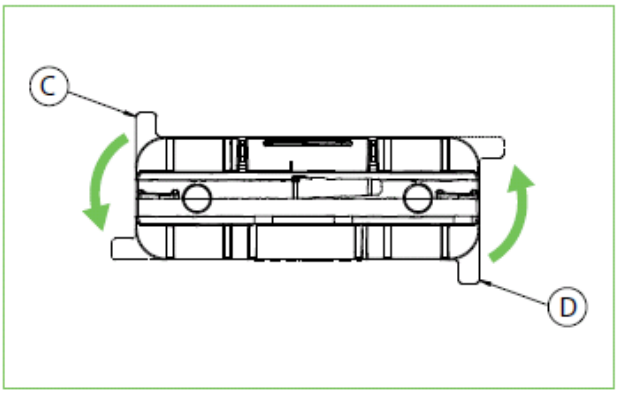

*Pic 2: Adaptor closure*

## ADAPTOR MOUNTING INTO THE TRACK

Insert the adapter into the track, so that the mechanical key (A) in the adaptor matches the groove (B) in the track (pic.3). Rotate of about 90° the levers of the two cams (C & D) until they reach the locking position (pic.4).



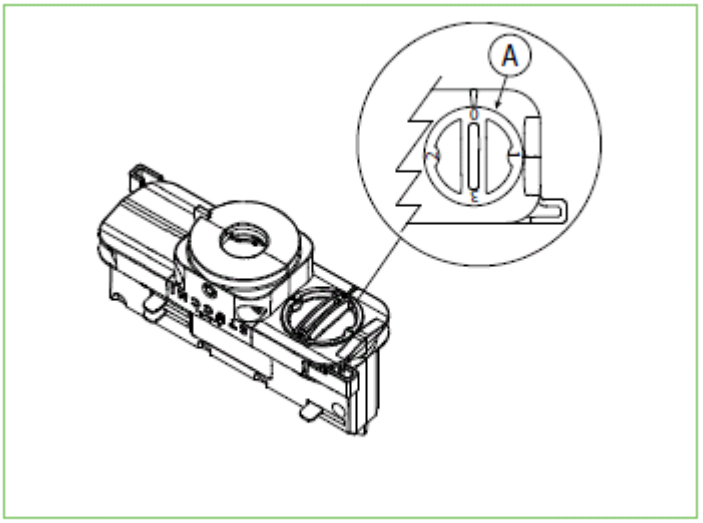

*Pic. 3 Mechanical key*




*Pic. 4 Cams rotation*

## PHASE SELECTION

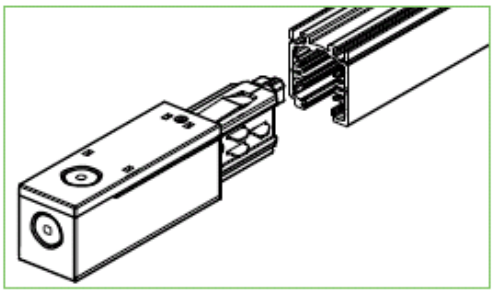
When the track is connected to a three-phase system it is possible to select the phase (L1, L2, L3) to distribute to the single luminaires in the system, by means of the proper selector (A) of the adaptor (pic.5).




*Pic. 5 Phase selector*

## END-FEEDS 9001/... AND 9002/...

In order to guarantee the correct wiring of the system the end-feed is provided with a mechanical key that ensures the correct insertion into the track:
9001/… left end-feed
9002/…right end-feed
When installing the mechanical key must be used correctly.

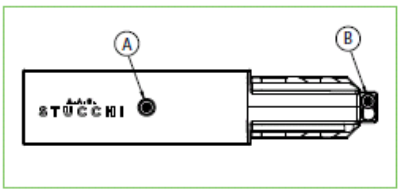


## END-FEED WIRING

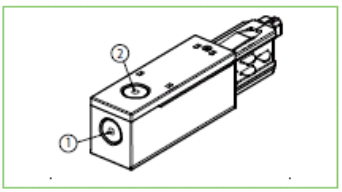
For the wiring of the end-feed use the following wire: 5 x 1.5-2.5 mm² o 7 x 1.5-2.5 mm². Remove the end-feed cover unscrewing the screw (pic. 1) so that contacts are visible. Knock- out the detachable wall 1 or 2 (Pic 2) and create a hole, then make the wire pass through it. When using the hole on wall 1 the screw cord grip on the end-feed itself must be used. When using the hole on wall 2 we recommend to use a plastic cord grip (not provided with the end-feed). Remove the protective covering from the wires for about 80mm, then strip the wires for 10-11 mm.

Depending on the diameter it is possible to use S-9001/115 gasket (grommet – see catalogue page 54) to cover any possible space between the wire and the hole on the end feed (not included in the package and to be ordered separately). After that proceed with wiring to the end-feed contacts respecting the marking on it (L1 / L2 / L3 / N / E / D+ / D-).

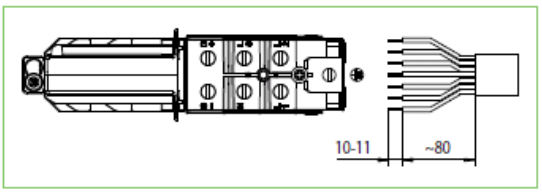
After wiring place the cover on the end-feed and tighten A screw. Finally insert the end-feed into the track and lock it through screw B (pic. 2).



Pic. 1 End-feed screws



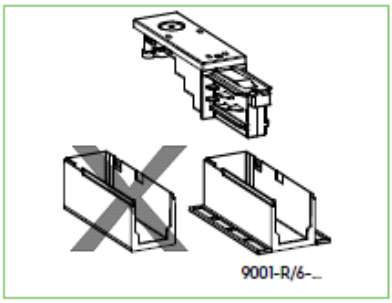
Pic. 2 Knock-out walls



Pic. 3 Length of the wires

## RECESSED VERSION

The standard cover must be replaced with the recessed cover (9001-R/6-... not included in the package and to be ordered separately), performing the same indication in the section "End-feed wiring" (pic.4).



Pic. 4 Recessing version