SMART-L SYSTEM

MOUNTING RAIL

MR - mounting rail

The mounting rail is made from calendered 0.6 mm sheet steel and has a white polyester resin paint surface finish. The rail is standardly available in two lengths (double- and triple-body) and can be supplied as a single-body on request. Wiring comprised of 5 x, 7 x, or 9 x 1.5 mm² cross-section cabling can be installed in the profile, with the option of using 2.5 mm² cabling as required. All conductive connectors are finished with axial connectors that allow for simple toolless continuous connecting of mounting rails. Wiring connectors enable easy attachment of luminaire bodies to the mounting rails.

Pre-wired trunking

The wiring of the SMART-L SYSTEM is fitted during manufacture in preparation for fast and simple electrical installation and provides great flexibility. Included electrical connectors allow for mains, LMS, and emergency lighting supply connection at predefined points suitable for FDH and 1.5 modules. Wiring is suitable for both 5-, 7- and 9-pole connection as requested, standardly using 1.5 mm² cabling or 2.5 mm² cabling on request. If emergency lighting is to be installed, some of the luminaires must be equipped with emergency units requiring an additional conductor for battery supply.

5-pole electrical connection

a) Three-phase operation

Use of the 3-phase system allows SMART-L to be installed in very long uninterrupted lines, making it an ideal solution for large buildings. The 3-phase system, by utilising the third phase as a control line, also allows for any number of individual luminaires to be switched off during periods of inactivity while some remain switched on to provide a required minimum illumination.

b) Two-phase operation + emergency lighting

When using only two phases, it is possible to use the spare phase conductor for other things such as emergency lighting.

7-pole electrical connection

This variant offers all of the above-mentioned advantages in addition to the possibility of including lighting control (LMS). 7-pole connection is necessary for installation in lighting systems determined for the following uses:

a) Three-phase operation + LMS

Further to allowing for continuous connection in long uninterrupted lines and basic switching control, the extra connectors can be used for connection of dimmable electronic control gears.

b) Two-phase operation + emergency lighting + LMS

7-pole wiring enables the implementation of emergency lighting while still offering free connectors for dimmable electronic control gears.

9-pole electrical connection

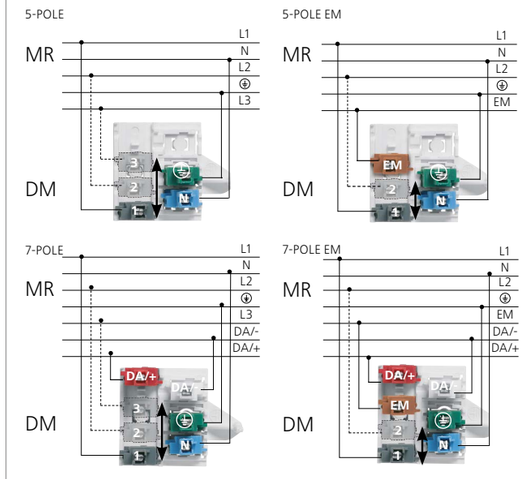
9-pole connection allows for almost unlimited inclusion of other systems in addition to standard operation, emergency lighting and an LMS. 9-pole connection is necessary for installation in lighting systems determined for the following uses:

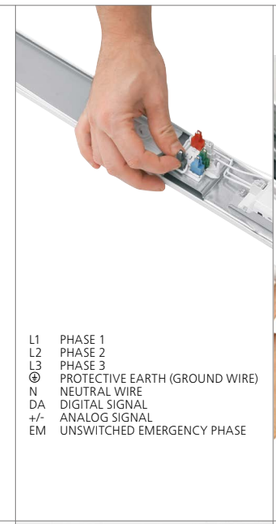
a) Three-phase operation + emergency lighting + LMS

Allows for full three-phase operation in addition to connection for emergency lighting and an LMS. In the case of DALI control, this broadens control possibilities.

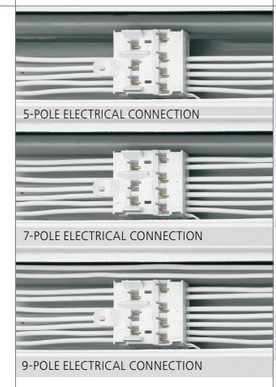
b) Two-phase operation + emergency lighting + emergency lighting /loud speaker system / other separated phase circuit

The additional two connectors can be used for connection of a wide range of other circuits such as a second, independent emergency lighting system, the feeding of loudspeakers (which can be included in the SMART-L SYSTEM), or any other separated phase circuit.

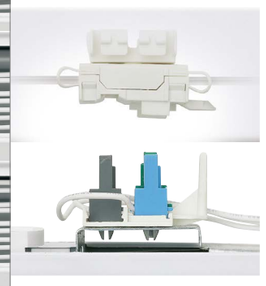


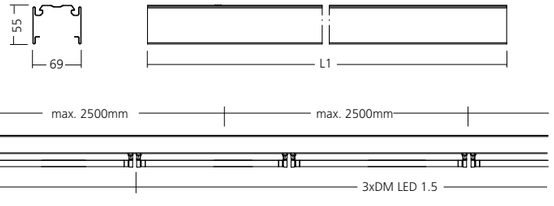


CONDUCTIVE CONNECTION OF MOUNTING RAILS USING AXIAL CONNECTORS



CONNECTOR FOR QUICK CONNECTION BETWEEN MOUNTING RAIL AND DEVICE MOUNT





smart lighting engineering

SMART-L SYSTEM

ACCESSORIES

RSE 02
Suspension with electric cable.
An adjustable rope used for the suspension of mounting rails along with a 3-, 5-, or 9-pole 1.5 mm^2 cable for connection to the mains. Cables are standardly supplied with a length of 1100 mm with other lengths available on request.

RS 02
Suspension.
An adjustable 1.5 mm diameter rope used for the suspension of mounting rails. Standardly supplied with a length of 1100 mm, other lengths are available on request.

CHS
Chain suspension.
A chain used for the suspension of mounting rails. Standardly supplied with a length of 1100 mm, other lengths are available on request.

CHP 02
Chain bracket.
Mounting bracket for suspension chains.

SBT 2402
Bracket for ceiling mounting.
A quick-fix bracket for mounting of the mounting rails in T-profile (24 mm) ceilings.

SBT 1502
Bracket for ceiling mounting.
A quick-fix bracket for mounting of the mounting rails in T-profile (15 mm) ceilings.

SB 02
Bracket for ceiling mounting.
A quick-fix bracket for mounting of the mounting rails on the ceiling.

MRE
Mounting rail end piece.
A self-extinguishing ABS plastic cover used to finish open ends of mounting rails. End pieces must be ordered separately.

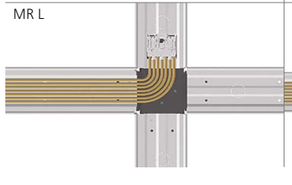
MRCP 02
Mounting rail connecting piece.
A standard connector that allows for both mechanical and electrical connection through insertion into other mounting rail parts. Made of zinc-coated sheet steel.

MR L II
L-shaped mounting rail corner connector.
An L-shaped mounting rail corner connector that allows for both mechanical and electrical connection through insertion into other mounting rail parts. Made of zinc-coated sheet steel.

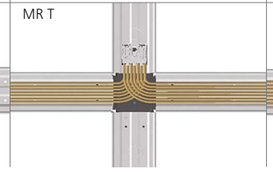
MR T II
T-shaped mounting rail connector.
A T-shaped mounting rail connector that allows for both mechanical and electrical connection through insertion into other mounting rail parts. Made of zinc-coated sheet steel.

MR L/T/X01/X02
Cross-shaped mounting rail connector.
This cross-shaped mounting rail connector is made of zinc-coated sheet steel and it comes with a plastic cap and end pieces.

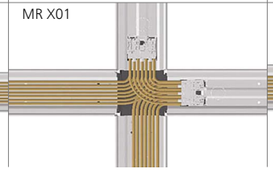
MR L



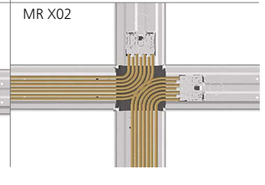
MR T



MR X01



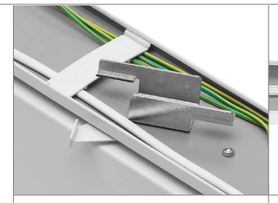
MR X02



LED device mount
The LED device mount is standardly attached directly to the mounting rail using two built-in clamps, which allow for simple installation without additional tools. Device mounts are made of calendered sheet steel with a white polyester resin paint surface finish. They are available in lengths of 1.5 m, both of which are suitable for all optical variants.

The connector located on the control gear tray allows for simple electrical connection of the LED device to the mounting rail. It also enables phase selection (5-, 7- and 9-pole connection) by means of positioning a moveable contact. Any free contacts can be used for the configuration of the LED device for dimming or emergency lighting.

For the case that there is a gap between device mounts, the mounting rail can be finished with a mounting rail cover.



MR COVER

MR PLASTIC COVER

Fly connector
Adjustable connector on a 1.5 m cable.

Sensor
Built-in sensor (type upon customer request).

Socket
It is possible to integrate electrical plug sockets into the SMART-L SYSTEM using the existing electrical wiring.

FDH track device mount
It is possible to combine the STUCHI TRACK system with SMART-L for the incorporation of spotlights (0.6 m STUCHI TRACK to 28/54W DM / 0.9 m STUCHI TRACK to 35/49/80W DM).

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