

CE INSTALLATION INSTRUCTIONS

DEHNrail modular, DR M 4P 255 (FM)

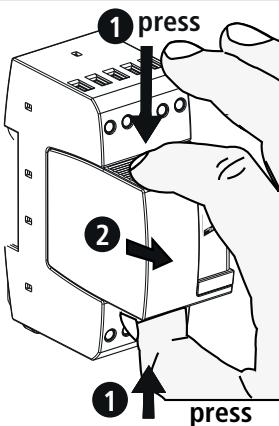
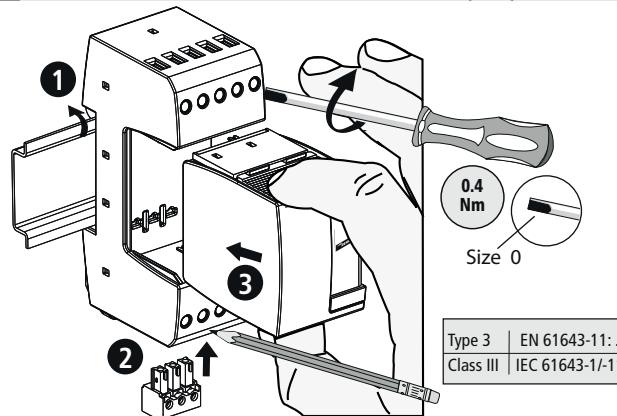


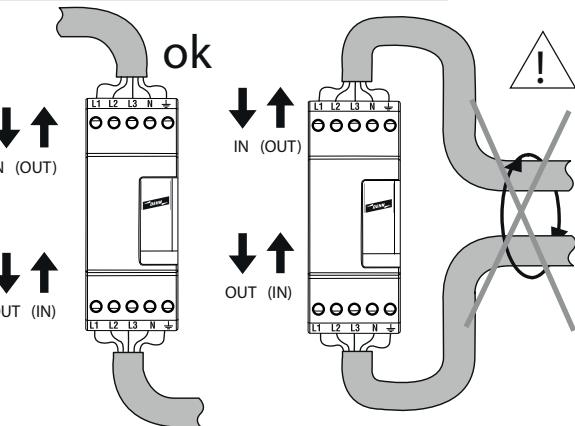
Fig. 1 Serial Wiring / Durchgangsverdrahtung

Technical Data / Technische Daten

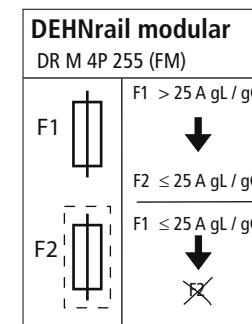
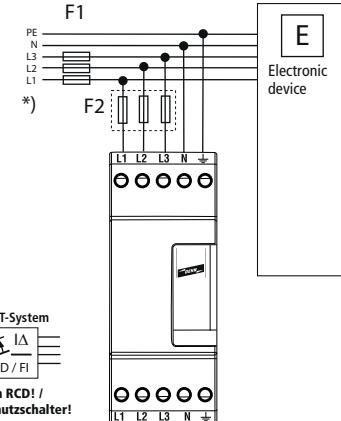
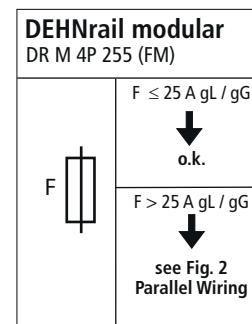
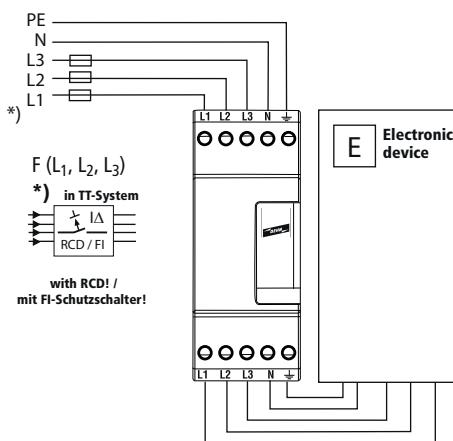
U_c	255 / 440 V~
max.	25 A gL/gG (B 25 A)
9° C	-40°C ... + 80°C
IP-Code	20
	10 mm
min. □ L1,L2,L3, N, \pm	0,5 mm ²
max. □ L1,L2,L3, N, \pm	2,5 mm ² 4 mm ²

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Cable Routing / Kabelführung



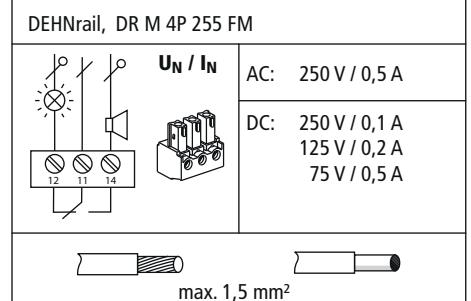
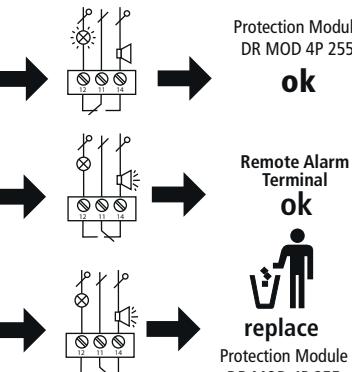
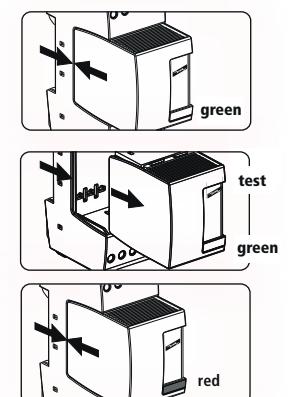
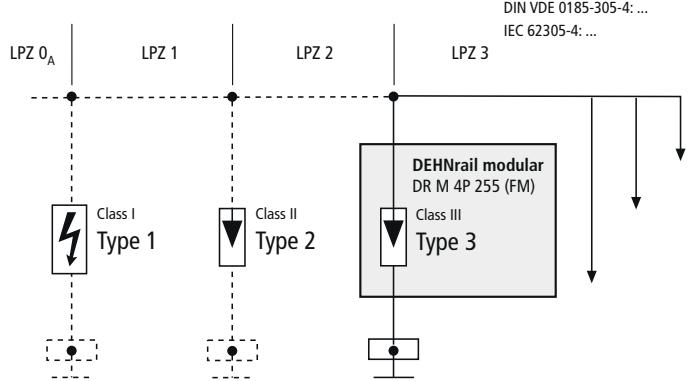
Basic Circuit Diagram / Prinzschaltbild



Coordination / Koordination

Function- / Defekt Indicator / Funktions- / Defekt-Anzeige

Remote Alarm Terminal / Fernmeldekontakt



Instruções de segurança

PT

A ligação e a montagem do aparelho apenas devem ser efectuadas por electricistas. Cumprir as normas nacionais e as disposições de segurança (IEC 60364-5-53 (VDE 0100 Teil 534...)).

Antes da montagem, controlar se o aparelho apresenta danos exteriores. Não se pode proceder à montagem do aparelho, se for detectado um dano ou qualquer outro defeito.

A utilização do aparelho só é permitida no âmbito das condições referidas e indicadas no presente manual de montagem. No caso de cargas superiores aos valores indicados, podem ser causados danos no aparelho, assim como nos meios de produção eléctricos ligados a este. As intervenções e as alterações no aparelho causam a perda do direito à garantia.

Informazioni di sicurezza

IT

L'accoppiamento ed il montaggio dell'apparecchiatura possono essere effettuati solo da personale qualificato. Sono da osservare le prescrizioni e le disposizioni di sicurezza nazionali (IEC 60364-5-53 (VDE 0100 Teil 534...)).

Prima del montaggio, controllare che l'apparecchiatura non presenti danneggiamenti all'esterno. Nel caso in cui dovesse essere constatato un danneggiamento o un altro difetto, non montare l'apparecchiatura.

L'impiego dell'apparecchiatura è consentito esclusivamente in presenza delle condizioni menzionate ed indicate in queste istruzioni sul montaggio. In caso di carico superiore ai valori dimostrati, l'apparecchiatura e l'impianto elettrico collegativo possono subire gravi danneggiamenti. Interventi o modifiche all'apparecchiatura comportano la perdita del diritto di garanzia.

Indicaciones de seguridad

ES

La conexión y el montaje del aparato sólo deben ser realizados por un electricista especializado. Deben observarse las normativas y disposiciones de seguridad nacionales (IEC 60364-5-53 (VDE 0100 Teil 534...)).

Antes de iniciar el montaje, debe comprobarse que el aparato no presente daños externos. En caso de observar daños u otros defectos, no debe efectuarse el montaje del aparato. El empleo del aparato está limitado a las condiciones indicadas y mostradas en estas instrucciones de montaje. Si las cargas superan los valores indicados, puede dañar tanto el aparato como los medios de producción eléctricos conectados al mismo.

La manipulación interior o la modificación del aparato invalidan el derecho de garantía.

Consignes de sécurité

FR

Montage et branchement de l'appareil à faire effectuer exclusivement par un électricien qualifié. Respecter les normes et les prescriptions de sécurité en vigueur localement (IEC 60364-5-53 (VDE 0100 Teil 534...)). Avant montage, procéder à un contrôle visuel extérieur de l'appareil. Ne pas monter celui-ci en cas de dommage manifeste ou si tout autre défaut est présent. La mise en œuvre de l'appareil n'est autorisée que pour la destination et aux conditions présentées et explicitées dans les présentes instructions de service. Des charges non comprises dans les plages de valeurs indiquées pourront abîmer l'appareil ainsi que les matériels électriques qui lui sont raccordés. Toute revendication en garantie sera exclue dans le cas d'une intervention sur l'appareil ou d'une transformation de celui-ci.

Safety Instructions

GB

The device may only be connected and installed by an electrically skilled person. National standards and safety regulations must be observed (see IEC 60364-5-53 (VDE 0100 Part 534...)). The device must be checked for external damage before installation. If any damage or other faults are detected in this check, the device must not be installed. Its use is only permitted within the limits shown and stated in these installation instructions. The device and the equipment connected to can be destroyed by loads exceeding the values stated. Opening or tampering with the device invalidates the warranty.

Sicherheitshinweise

DE

Der Anschluss und die Montage des Gerätes darf nur durch eine Elektrofachkraft erfolgen. Die nationalen Vorschriften und Sicherheitsbestimmungen sind zu beachten (siehe auch IEC 60364-5-53 (VDE 0100 Teil 534...)). Vor der Montage ist das Gerät auf äußere Beschädigung zu kontrollieren. Sollte eine Beschädigung oder ein sonstiger Mangel festgestellt werden, darf das Gerät nicht montiert werden. Der Einsatz des Gerätes ist nur im Rahmen der in dieser Einbauleitungen genannten und gezeigten Bedingungen zulässig. Bei Belastungen, die über den ausgewiesenen Werten liegen, können das Gerät sowie die daran angeschlossenen elektrischen Betriebsmittel zerstört werden. Eingriffe und Veränderungen am Gerät führen zum Erlöschen des Gewährleistungsanspruches.

Veiligheidsvoorschriften

NL

Sikkerhedshenvisninger

DK

Aansluiting en montage van het apparaat mogen enkel door een erkend elektricien uitgevoerd worden. De nationale voorschriften en veiligheidsbepalingen dienen opgevolgd te worden (IEC 60364-5-53 (VDE 0100 Teil 534...)).

Voor de montage dient het apparaat op uitwendige schade nagekeken te worden. Indien schade of een andere fout vastgesteld wordt, maar het apparaat niet gemonteerd wordt, kan het apparaat niet gemontereerd worden.

Het gebruik van het apparaat is alleen toegelaten binnen het kader van de in deze montagehandleiding opgenomen en getoonde omstandigheden.

Om de belastingen die hoger liggen dan de getoonde waarden, kunnen zowel het apparaat als de aangesloten elektrische werktuigen beschadigd worden. Verkeerd gebruik en veranderingen aan het apparaat leiden tot het verlies van het recht op waarborg.

Tilslutning og montering af aflederen må kun udføres af en fagkyndig. Forskrifter og sikkerhedsbestemmelser skal overholdes. Se SB Afsnit 6, Del 5, Kap 53 - 534.

For monteringen kontrolleres aflederen for udvendige skader. Hvis der konstateres skader eller andre mangler, må afledere ikke monteres. Apparaten får endast användas under de villkor som närmare och åskådliggörs i denna monteringsanvisning. Vid belastningar som sträcker sig utöver nämnda värden, kan apparaten samt anslutna elektriska driftenheter förstöras. Ingrep i och förändringar av apparaten leder till att alla garantianspråk bortfaller.

Säkerhetsföreskrifter

SE

Apparaten får endast anslutas och monteras av behörig elektriker. Nationella föreskrifter och säkerhetsbestämmelser måste beaktas (IEC 60364-5-53 (VDE 0100 Teil 534...)).

Kontrollera apparaten på ytter skador innan den monteras. Om skador eller andra brister föreligger, får apparaten inte monteras.

Apparaten får endast användas under de villkor som närmare och åskådliggörs i denna monteringsanvisning. Vid belastningar som sträcker sig utöver nämnda värden, kan apparaten samt anslutna elektriska driftenheter förstöras. Ingrep i och förändringar av apparaten leder till att alla garantianspråk bortfaller.

Turvaohjeet

FI

Tämän laitteen liittäminen saa suorittaa vain sähköalanammattimies. Maakohtaisia määritelyksiä ja turvallisuusmääritelysiä on noudata tavaa (IEC 60364-5-53 (VDE 0100 Teil 534...)).

Koneen tarkastettava ennen asennusta mahdollisten ulkoisen vaarioiden varalta. Todetaessa vaario tai muu puute, ei laitetta saa asentaa.

Koneen käytöön on salitettua vain näissä asennushetkissä mainituissa ja osoitettuissa olosuhteissa. Laitte sekä siihen liitetty sähköjärjestelmä saattavat vaurioitua kuormitukilla, jotka ylittävät annetut arvot. Kajaaminen laitteeseen ja muutokset siinä johtavat takuuvaatimuksen mitätöitymiseen. Kajaaminen laitteeseen ja muutokset siinä johtavat takuuvaatimuksen mitätöitymiseen.

H σύνδεση και η συναρμολόγηση της συσκευής επιτρέπεται μόνο από κάποιους από τους επίπεδους προβλημάτων μόνο από κάποιους κάποιους επαγγελματίας. Πρέπει να προνούνται οι εθνικές διατάξεις και οδηγίες ασφαλείας (IEC 60364-5-53 (VDE 0100 Teil 534...)).

Πρέπει να συναρμολογηθεί η συσκευή πριν γίνεται η επεξεργασία. Εάν επιπρέπεται η συναρμολόγηση της συσκευής ή περίπτωση που εξαρθρώνται κάποια γνώμη ή όλοι ελάττως.

Η χρήση της συσκευής επιτρέπεται μόνο στο πλαίσιο των όρων που αναφέρονται σ' αυτές τις οδηγίες συναρμολόγησης.

Σε περίπτωση επιβαρυνσεων που υπερβαίνουν τις προβλασματικές τιμές μπορεί να καταστραφούν οι συσκευές και οι συνδεσμένες με αυτήν πορών.

Επεμβάσεις και μετατροπές στη συσκευή σημηγούν στην απώλεια των αρχών που απορρέουν από την εγγύηση.

Υποδείξεις ασφαλείας

GR

Special technical information referred to UL 1449 3rd edition:

1. Safety Instructions

The DEHNrail series SPD is to be installed only by a qualified personnel and to be done so in compliance with all local and National Electrical Code requirements. For proper system protection coordination with other SPD's must be considered; contact our application engineer for assistance if in doubt. Installation and connection to service must be done only when the system is de-energized. Its application is to be compliant with its rating and therefore must not be installed in a more severe environment subjecting it to higher voltages, currents or energy levels than for which its technical specifications provide. It is designed for indoor applications and must be placed in a suitable rated NEMA enclosure if the system is to be in a harsher environment. Opening or tampering with the thermoplastic enclosure may damage the effective operation of the SPD and is inadvisable and will void the warranty.

2. General installation Instructions

Section 250 of the NEC and IEEE Green Book, Standard 142 should be consulted. Local electrical codes and/or the Canadian Electrical code have to be considered. **System voltage:** Make sure that the SPD is correctly rated for the system where the SPD should be applied. The maximum continuous operating voltage (MCOV) must not be exceeded. **Mounting:** Make sure that the SPD is installed as close as possible to the device to be protected. The conductor length for these connections must be kept as short and as straight as possible. The SPDs are to be mounted on the 35 mm DIN rail. The rail is to be securely mounted to the back of the interior of the panel using ¼ inch bolts every 8 inches (200 mm). The SPDs can either be slid on the rail from open end or put on the rail by compressing the spring loaded clamping device on the lower back of each unit. The SPDs shall permit sufficient clearance for conductor power and signaling connections. **Conductor Connections:** Phase connections to the SPD and ground side connections from the SPD to the ground bus must be of the wire size indicated in the technical specifications. Insulation should be stripped back as described on the previous page. All conductor terminal screws shall be tightened to the torque indicated in the technical data. **Grounding:** Make sure that the grounding of the SPD is as short and straight as possible with the specified wire size according to the technical data. Use a local equipotential bonding bar if possible. For proper operation the SPD must be connected to a low impedance ground. **Remote Contact Signaling:** In case of a device with remote contact signaling make sure that the torque is as indicated in the technical data. **Problem Diagnostics:** If there should be any problem please contact your local DEHN representative.

Type	DR M 4P 255 (FM)			
Rated voltage (V) (50/60 Hz)	230 / 400			
Mode	L-L	L-N	L-G	N-G
MCOV [V]	400	255	255	255
MLV [V]	1880	940	1090	1120
Rated Current [A]	20			
In [kA]	3			
9	0°C ... + 85°C			
Con-	AWG	14-20 Cu Stranded; 12-20 Cu Solid		
ductors	Torque	3.5 Lbs-in		
Remote	AWG	14-22 Cu		
Indicator	Torque	3 Lbs-in		
SPD classification	Typ 4 Component Assembly			

PL