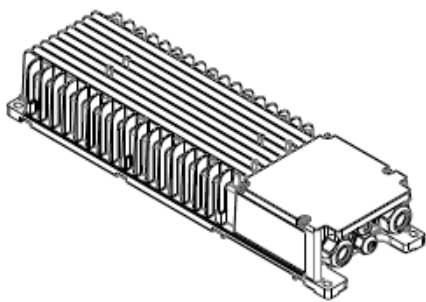
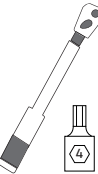
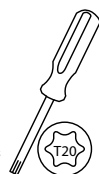
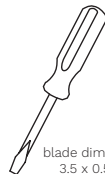
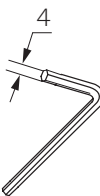


Inventronics driver for RAPTOR 4
NFS-1K8T210BC

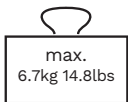
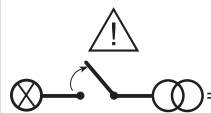
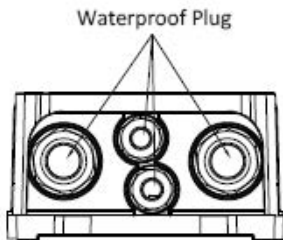
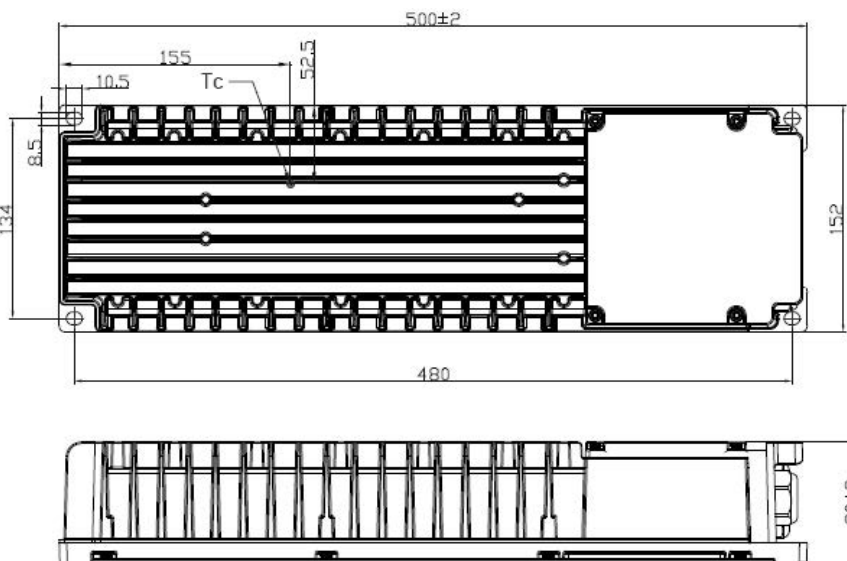


ENG	INSTALLATION INSTRUCTIONS	ITA	ISTRUZIONI DI INSTALLAZIONE	NLD	INSTALLATIE INSTRUCTIES	DAN	INSTALLATIONSVEJLEDNING	HUN	TELEPÍTÉSI ÚTMUTATÓ
DEU	INSTALLATIONSANLEITUNG	POL	INSTRUKCJE MONTAŻU	RUS	Инструкции по установке	RON	INSTRUCȚIUNI DE INSTALARE	CHI	安装说明
FRA	INSTRUCTIONS DE MONTAGE	SPA	INSTRUCCIONES DE INSTALACIÓN	POR	INSTRUÇÕES DE INSTALAÇÃO	SWE	INSTALLATIONSANVISNING	UKR	Інструкції з монтажу
SRP	UPUTSTVA ZA INSTALACIJU	AR	تعليمات التركيب						



19,23,30,34,36,42

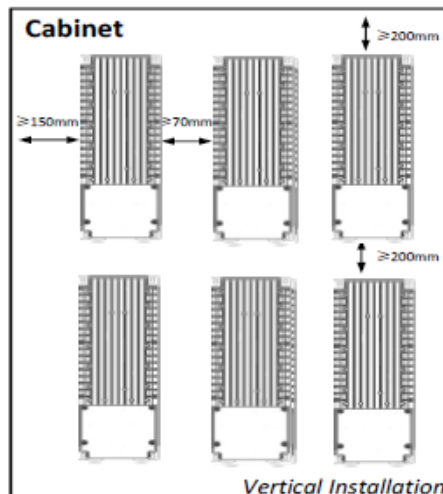
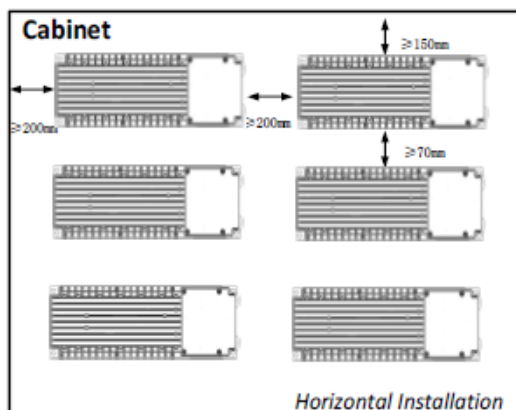
A - INVENTRONICS DRIVER OVERVIEW



Additional SPD must be installed on the mains input of the driver. For further details, see section G

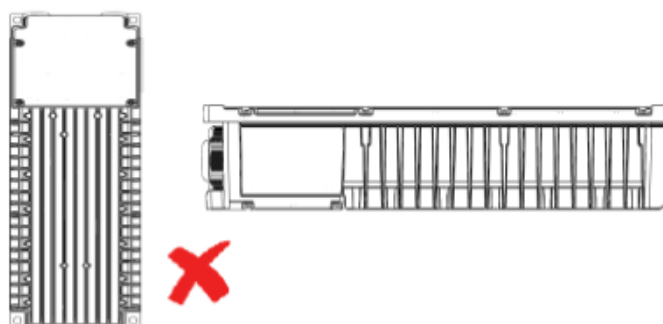


B - DRIVER POSITIONING



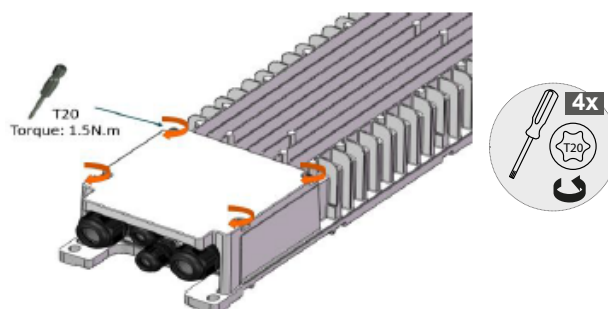
These distances are intended only as a reference (Tc & Ta must be considered!) The distances must be evaluated under real installation and application conditions to stay within the maximum Tc 80°C allowed for the LED driver, to avoid any thermal derating and ensure the expected lifetime.

The two installation orientations depicted on the right are forbidden.

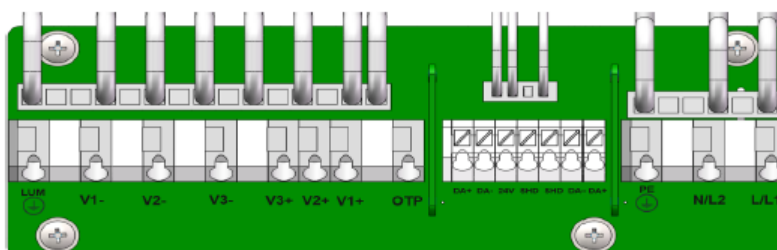


C - ELECTRICAL CONNECTION

1 OPEN DRIVER COVER

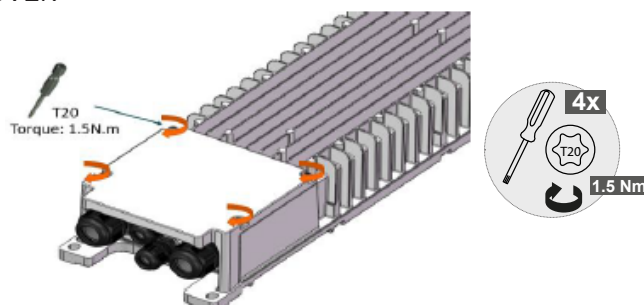


2 CONNECT AC, CONTROL & LED MODULE WIRES. MAKE THE ELECTRICAL CONNECTION.

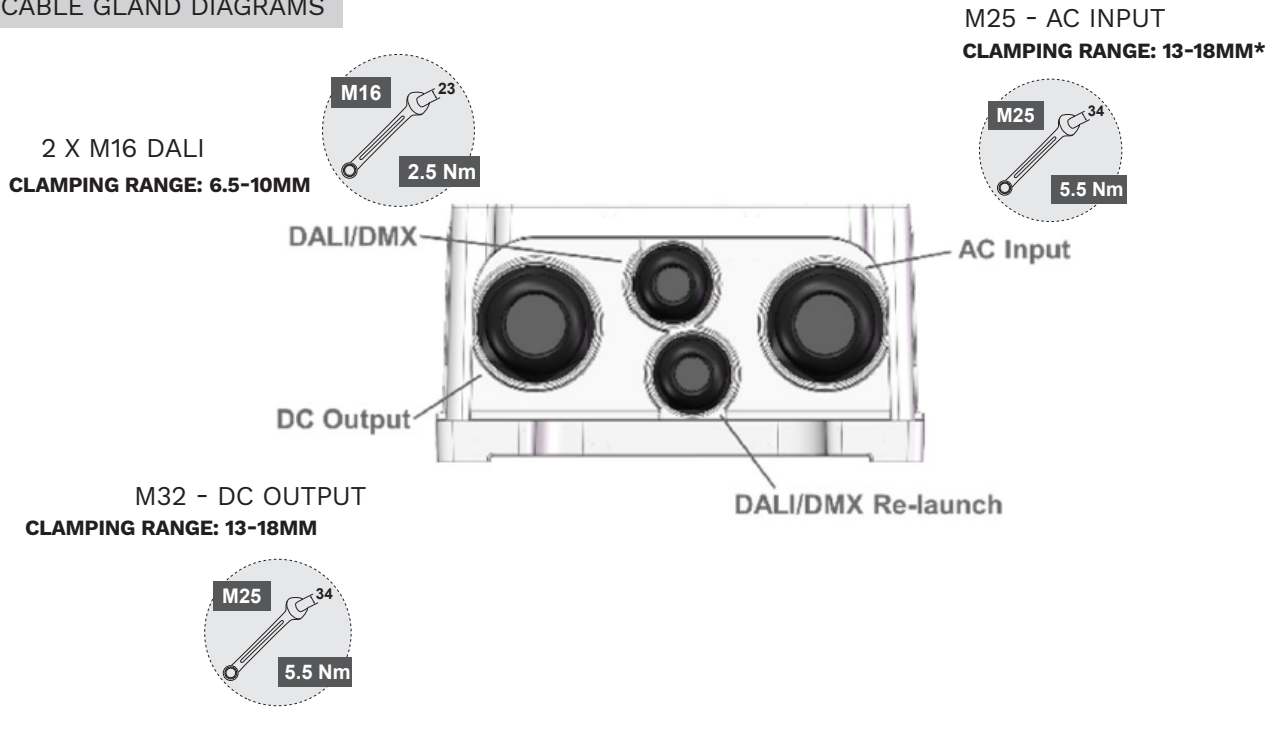


!
Use appropriate tool for electrical connections!

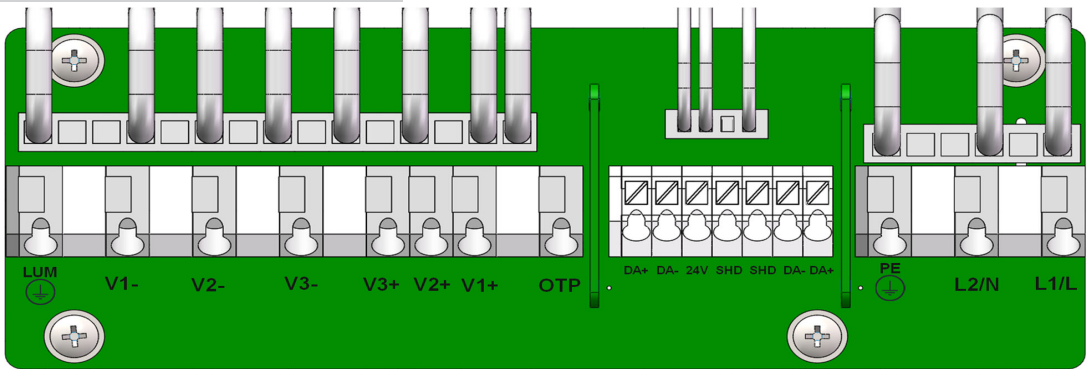
3 TIGHTEN THE DRIVER COVER



CABLE GLAND DIAGRAMS



INPUT, OUTPUT AND DALI CONNECTIONS



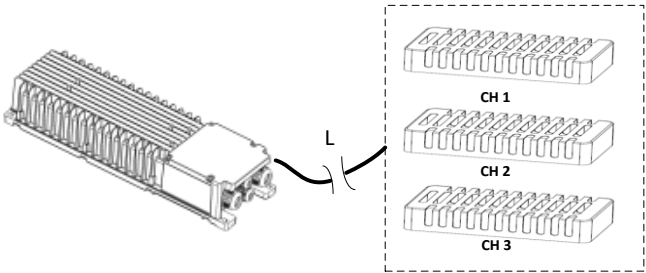
Connector ID	Cable ID
LUM	Protection Earth for LED module
V1-	LED1- connection
V2-	LED2- connection
V3-	LED3- connection
V3+	LED3+ connection*
V2+	LED2+ connection
V1+	LED1+ connection
OTP	Thermal protection input

*No output connection to V3+ with RAPTOR 4.

Connector ID	Cable ID
DA+	DALI input+
DA-	DALI input-
24V	24V aux. source
SHD	DMX shield
SHD	DMX shield
DA-	DALI re-launch input-
DA+	DALI re-launch input+
PE	Protection Earth
L2/N	Line2/Neutral
L1/L	Line1/Line

WARNING: The external wiring of DALI-2 system is usually considered FELV. The terminals marked "Risk of electric shock" are not safe to touch due to external wiring even if the product is internally protected by a reinforced insulation on DALI-2 terminals.

Use appropriate cable section to reduce voltage drop:
L < 100m : wire size 1.5mm²
100m < L < 300m : wire size 2.5mm²



RESPECT THE POLARITY OF THE DALI LINES WHEN USED WITH A CONTROL SYSTEM!



D - INRUSH CURRENT DATA AND LUMINAIRES PER CIRCUIT BREAKER

The maximum number of LED drivers connectable to a single MCB is reported in the following table for each nominal input voltage. Due to the different kinds of circuit breakers available on the market, this table is just for reference.

1800 W

V _{IN} Inrush Current Data			# Drivers For Each Circuit Breaker														
Nominal [V _{AC}]	I peak [A]	Half Value Time [μs]	Type B					Type C					Type D				
			10A	16A	20A	25A	32A	10A	16A	20A	25A	32A	10A	16A	20A	25A	32A
220/240	5.4	8,600	0	1	1	1	2	0	1	1	1	2	0	1	1	2	2
400	11.8	9,200	1	1	2	3	3	1	2	2	3	4	1	2	3	4	5

E - PRODUCT SPECIFICATIONS

Model / Order code	Power max [W]	System power Raptor 4 [W]	Input Voltage ¹ [V _{AC}]	Raptor 4 System Input Current [A]	Output Voltage [V _{DC}]	Pre-set Output Current [A]
NFS-1K8T210BC	1800	1240	220 - 415	6.05 (at 230V _{AC}) 3.5 (at 400V _{AC})	176 - 500	1.4

¹Frequency 50 - 60 Hz
Maximum earth leakage current 3.5mA

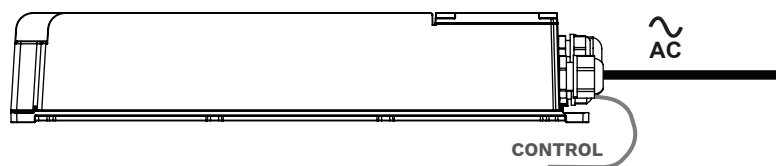
F - WARRANTY STATEMENT

WARRANTY INSTRUCTIONS: For the purpose of warranty claims (if any) the following instructions apply:
Warranty components – THE PRODUCT, (all products in the document). **Warranty period** – The above components are provided with a warranty of FIVE (5) year/s or WARRANTED hours of 20,000hrs operation (which ever arrives first) against manufacturing defects or failure to perform to specifications for products installed by an authorized installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorized modification or damage arising from any intervening cause.
Warranty reference – The warranty reference date commences from the date of purchase.
Warranty point of contact – Schröder Australia Pty Ltd, Bldg 4A, Parklands Estate, 21-23 South Street NSW 2116, phone T 1300 489 780 contact – Schröder After Sales Support.
Warranty claim procedure – For the purpose of making a claim the customer must:
1. Contact the “point of contact” above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
2. At the customer's expense, collect and return the goods to the “point of contact” with the issued GRA number. 3. Upon receipt of the goods, Schröder will review the claim and if found to be accepted, Schröder will return a replacement product to the customer to install at the customer's expense. Alternatively, if the claim is rejected, the customer may request the return of the goods at their expense.
Consumer Contracts – The benefits to the customer given by the Schröder warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. **Limitation of Liability** – if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise;- (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Schröder liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** – these Warranty provisions are in substitution for any inconsistent provisions in the Schröder Terms and Conditions of Sale in so far as they apply to the Warranty components.

G - ADDITIONAL SPD INSTALLATION



One SPD by luminaire must be installed to assure an efficient protection.



SPD must be located in an auxiliary junction box or connected in the subpanel, in IP66 environment



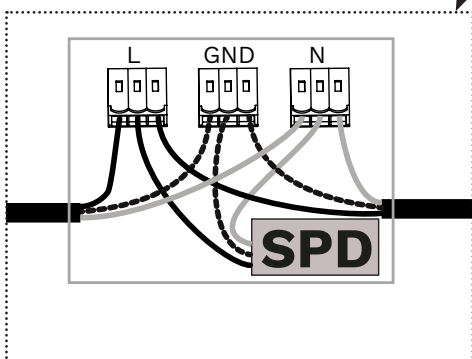
I. For 230V AC use

Recommended SPD types:

Littlefuse LSP05G(I)277P

SETfuse SD10C277LMT

Vossloh Schwabe SPC3/230/10K/i

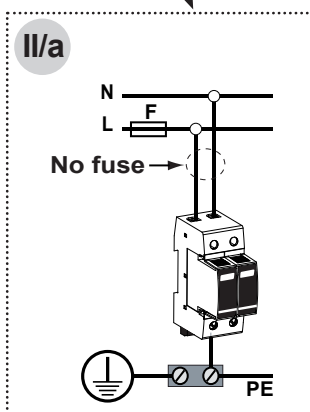


II. For 400V AC use

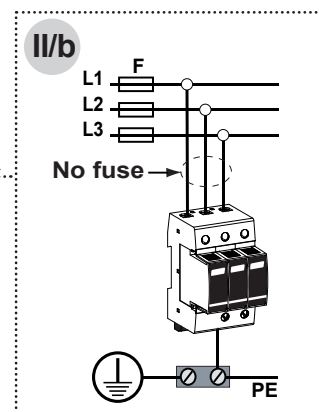
Recommended SPD types:

CITEL DACF15S-20-440

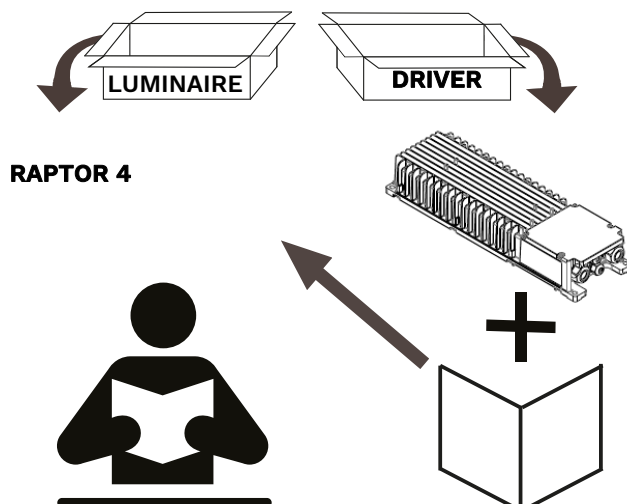
CITEL DACF15S-30-440



CITEL DACF15S-20-440



CITEL DACF15S-30-440



PLEASE CHECK THE RELATED LUMINAIRE INSTALLATION SHEET FOR MORE INFORMATION!

ENG	SAFETY INSTRUCTIONS Always switch off the power prior to installation, maintenance or repair activities. In case of PVC insulated mains cable, the installer MUST ensure that the WHOLE cable is protected against climatic conditions, especially UV rays and rain, by making sure that the cable is contained inside the luminaire and pole	ITA	ISTRUZIONI DI SICUREZZA Staccare sempre il filo della corrente prima di iniziare operazioni di installazione, manutenzione o riparazione. In caso di cavo di alimentazione isolato in PVC, l'installatore DEVE garantire che il cavo INTERO sia protetto dalle condizioni climatiche, in particolare dai raggi UV e dalla pioggia, assicurandosi che il cavo sia contenuto all'interno del corpo illuminante e del palo	NLD	VEILIGHEIDSIINSTRUCTIES Schakel altijd de stroom uit voordat u aan installatie, onderhoud of reparaties begint. In het geval van PVC-geïsoleerde voedingskabels MOET de installateur ervoor zorgen dat de GEHELE kabel wordt beschermd tegen klimaatomstandigheden, met name UV-stralen en regen, door ervoor te zorgen dat de kabel zich in het armatuur en de paal bevindt	DAN	SIKKERHEDSIINSTRUKTIONER Sluk altid for strømmen inden påbegyndelse af installation, vedligeholdelse eller reparation. I tilfælde af PVC-isoleret ledning SKAL elektrikerens sikre, at HELE kablet er beskyttet mod klimatiske forhold, dette gælder især UV-stråler og regn. Elektrikeren skal derfor sørge for, at kablet forbliver inde i armaturet og masten.
DEU	SICHERHEITSHINWEISE Schalten Sie die Stromversorgung vor Installationen-, Wartungs- und Reparaturarbeiten stets ab. Bei Verwendung eines PVC-isolierten Netzkabels MUSS der Installateur sicherstellen, dass das GESAMTE Kabel vor klimatischen Bedingungen -insbesondere vor UV-Strahlen und Regen- geschützt ist, indem sichergestellt wird, dass das Kabel in der Leuchte und dem Mast verschlossen ist	POL	INSTRUKCJA BEZPIECZEŃSTWA Przed rozpoczęciem instalacji, konserwacji lub naprawy należy bezwzględnie odłączyć zasilanie elektryczne. W przypadku kabla sieciowego izolowanego PCV instalator MUSI upewnić się, że kabel CAŁY jest chroniony przed warunkami klimatycznymi, w szczególności przed promieniowaniem UV i deszczem, upewniając się, że kabel znajduje się wewnątrz oprawy i stupa.	RUS	инструкция безопасности Перед проведением установк, сервисного обслуживания или ремонта всегда отключайте питание устройства. В случае кабеля питания с ПВХ изоляцией, монтажник ДОЛЖЕН обеспечить защиту ВСЕГО кабеля от воздействия климатических условий, особенно от ультрафиолетовых лучей и дождя, убедившись, что кабель находится внутри светильника и опоры.	RON	INSTRUCȚIUNI DE EXPLOATARE Opriți întotdeauna alimentarea electrică înainte de lucrările de instalare, întreținere sau reparații. În cazul cablului de alimentare cu izolație din PVC, instalatorul TREBUIE să se asigure că TOT cablul este protejat împotriva condițiilor climatice, mai ales împotriva razelor UV și a ploii, asigurându-se că acest cablu este plasat în interiorul aparatului de iluminat și al stălpului
FRA	INSTRUCTIONS DE SECURITE Mettez toujours l'appareil hors tension avant toute opération d'installation, d'entretien ou de réparation. Dans le cas d'un câble secteur isolé en PVC, l'installateur DOIT s'assurer que le câble ENTIER est protégé contre les conditions climatiques, en particulier les rayons UV et la pluie, en s'assurant que le câble est contenu à l'intérieur du luminaire et du poteau	SPA	INSTRUCCIONES DE SEGURIDAD Apague siempre el interruptor de alimentación antes de realizar tareas de instalación, mantenimiento o reparación. En el caso de un cable aislado de PVC, el instalador DEBE asegurarse de que todo el cable esté protegido contra las condiciones climáticas, especialmente los rayos UV y la lluvia, asegurándose de que el cable esté dentro de la luminaria y el poste	POR	INSTRUÇÕES DE SEGURANÇA Desligue sempre a alimentação antes de proceder a actividades de instalação, manutenção ou reparação. No caso de cabo de alimentação com isolamento em PVC, o instalador DEVE assegurar que TODO o cabo é protegido das condições climáticas, especialmente raios UV e chuva, certificando-se que o cabo está contido dentro da luminária e da coluna.	SWE	SÄKERHETSINSTRUKTIONER Stäng alltid av strömmen före installation, underhåll eller reparation. Vid PVC-isolerad kabel måste installatören se till att hela kabeln är skyddad mot klimatförhållanden, särskilt UV-strålar och regn, genom att se till att kabeln monteras inuti armaturen och stolpen
HUN	BIZTONSÁGI ÚTMUTATÓ A szerelés, karbantartás és javítás előtt minden esetben végezzen áramtalanítást. PVC szigetelésű tápkábel esetén a telepítőnek biztosítania KELL, hogy a TELJES kábel védett legyen az éghajlati viszonyoktól, különösen az UV sugárzástól és az esőtől, ügyelve arra, hogy a kábel a lámpatest és az oszlop belsejében legyen.	CHI	安全守则 在安装、维护和维修灯具之前必须首先切断电源。 如果选择PVC主电缆，必须确保整个电缆被很好的保护以抵御恶劣气候状况，尤其是紫外线和雨水，而且要确保电缆被灯具和灯杆完全覆盖。	UKR	інструкція безпеки Завжди вимикайте живлення перед встановленням, доглядом або ремонтом. У випадку кабелю живлення із ПВХ ізоляцією, монтажник ПОВИНЕН забезпечити захист ВСЬОГО кабелю від впливу кліматичних умов, особливо від ультрафіолетових променів та дощу, переконавшись, що кабель знаходиться всередині світильника та опори	SRP	UPUTSTVA Uvek isključite napajanje pre instalacije, održavanja ili popravke. U slučaju napojnog kabla sa PVC izolacijom, izvođač MORA obezbediti zaštitu CELOG kabla od klimatskih uslova, posebno UV zračenja i kiše, tako što će osigurati da se kabal nalazi unutar svetiljke i stuba.
AR	تعليمات السلامة: دائماً افصل الدائرة الكهربائيه قبل تركيب أو صيانه الجهاز. يجب على الشخص الذي يوصل الجهاز بالدائرة الكهربائيه التأكد من أن محمي من التأثيرات المناخيه و خاصه الاشعه فوق البنفسجيه و المطر من خلال التأكد أن الكابيل محوي بداخل العمود و الجهاز في حاله الحاجه لتغير الاسلاك الداخليه ، يتم ذلك من خلال الشركه المصنعه او الوكيل المخول لعمل ذلك او شخص مخول لذلك. دائماً افصل الدائرة الكهربائيه قبل تركيب أو صيانه الجهاز.						

