

INSTALLATION INSTRUCTIONS

# Enclosed rotary switches Manual motor controllers

eOT520\_, eOT530\_, eOT540\_, eOT560\_, eOT580\_



# Applications



The eOT series enclosed manual motor controllers are rotary operated, 3-, 4-\* or 6-pole switches, housed in thermoplastic enclosures, suitable for wet and corrosive environments, and heavy-duty switches, housed in metallic enclosures.

Suitable for both indoor and outdoor applications.

### Plastic enclosures

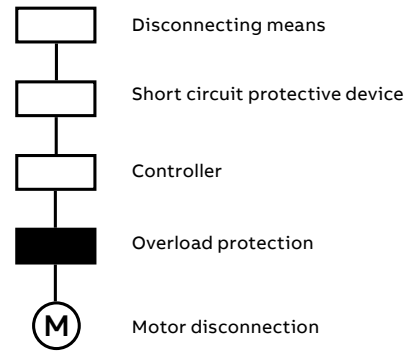
Available in Type 3R and 12, IP65 with selector and pistol grip handles in Type 12, 4/4X, IP65 with pistol grip handles.

### Metal enclosures

Available in Type 1, Type 3R and 12, IP54 with selector and pistol grip handles and in Type 4/4X, IP65 with pistol grip handles.

Products are properly installed on the load side of a branch circuit protective device and are suitable for use as motor disconnects.

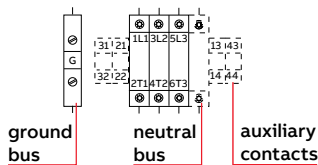
\* Field-installable



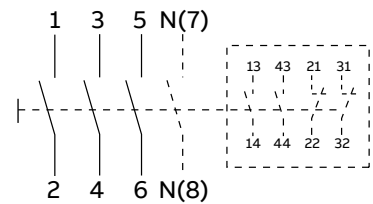
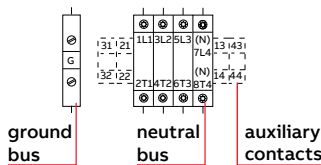
### WARNING

To avoid hazard of electric shock, turn off and lock out all power sources before installing or performing maintenance on this equipment.

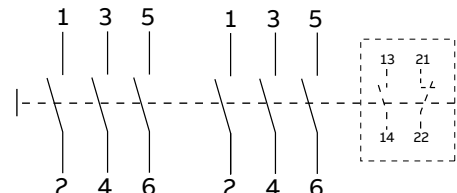
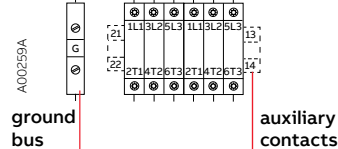
Non-Fused Disconnect 3ph



Non-Fused Disconnect 3ph + neutral pole



Non-Fused Disconnect 3ph 6-pole



# Wire connections

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## eOT520\_, eOT530\_, eOT540\_

### Wire size:

- #18–8 AWG
- 0.75...10 mm<sup>2</sup>
- 60–75 °C
- Cu only, solid or stranded

### Torque:

- 7 lb-in
- 0.8 Nm
- Use Pozi-drive #2 or flat blade screwdriver

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## eOT560\_, eOT580\_

### Wire size:

- #14–4 AWG
- 1.5...35 mm<sup>2</sup>
- 60–75 °C
- Cu only, solid or stranded

### Torque:

- 18 lb-in
- 2.0 Nm
- Use Pozi-drive #2 or flat blade screwdriver

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## Auxiliary contacts

### Wire size:

- #18–14 AWG
- 0.75...2.5 mm<sup>2</sup>
- 60–75 °C
- Cu only, solid or stranded

### Torque:

- 7 lb-in
- 0.8 Nm
- Use Pozi-drive #2 or flat blade screwdriver

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## Optional power poles

### eOT520\_, eOT530\_, eOT540\_:

OTPS40FPN2	4th pole
OTPN40FP	Solid neutral pole (optional)

### eOT560\_, eOT580\_:

OTPS80FP	4th pole
OTPN80FP	Solid neutral pole (optional)

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## Optional auxiliary contacts

OA1G10 (1 NO)	Install on right side of switch. Max. 2 pcs on 3-pole switch. 1 pc on 4-pole switch (eOT16–32).
OA1G01 (1 NC)	Install on left side of switch, max. 2 pcs.
OA2G11 (1 NO + 1 NC)	Install on right side of switch.

# Installation

## eOT520\_, eOT530\_, eOT540\_ (3-pole)

Two concentric  $\frac{1}{2}$ " and  $\frac{3}{4}$ " knockouts (KOs) are provided in the top and bottom of the enclosure (size 1), and two M20 KOs are provided in both sides of the enclosure.

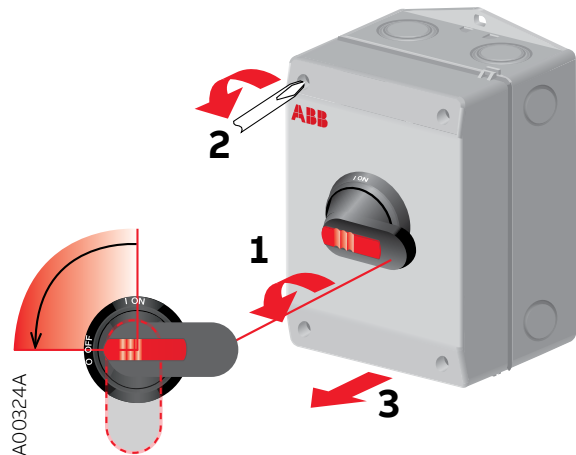
## eOT520\_, eOT530\_, eOT540\_ (6-pole / change-over switch) and eOT560\_ (3-pole)

Two concentric  $\frac{3}{4}$ " and 1" KOs are provided in the top and bottom of the enclosure (size 2), and two M20 KOs are provided in both sides of the enclosure.

## eOT560\_, eOT580\_ (6-pole / change-over switch) and eOT580\_ (3-pole)

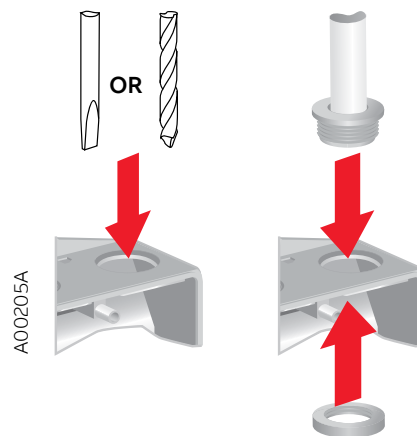
Two concentric 1" and 1  $\frac{1}{4}$ " KOs are provided in the top and bottom of the enclosure (size 3), and two M20 KOs are provided in both sides of the enclosure.

Operate switch to the OFF position, loosen the cover screws and remove the cover.



An internal metallic plate bonds together all conduit hubs installed, without the need for additional bonding jumpers.

- Drill proper holes for conduit hubs or use KOs.
- Install conduit hubs.
- Install enclosure sizes 1 and 2 using two (2) #8 or M4 screws.
- Install enclosure size 3 using four (4)  $\frac{1}{4}$ " or M6 screws.



# Installation

Operate switch to the OFF position and loosen the lock. Open the enclosure.

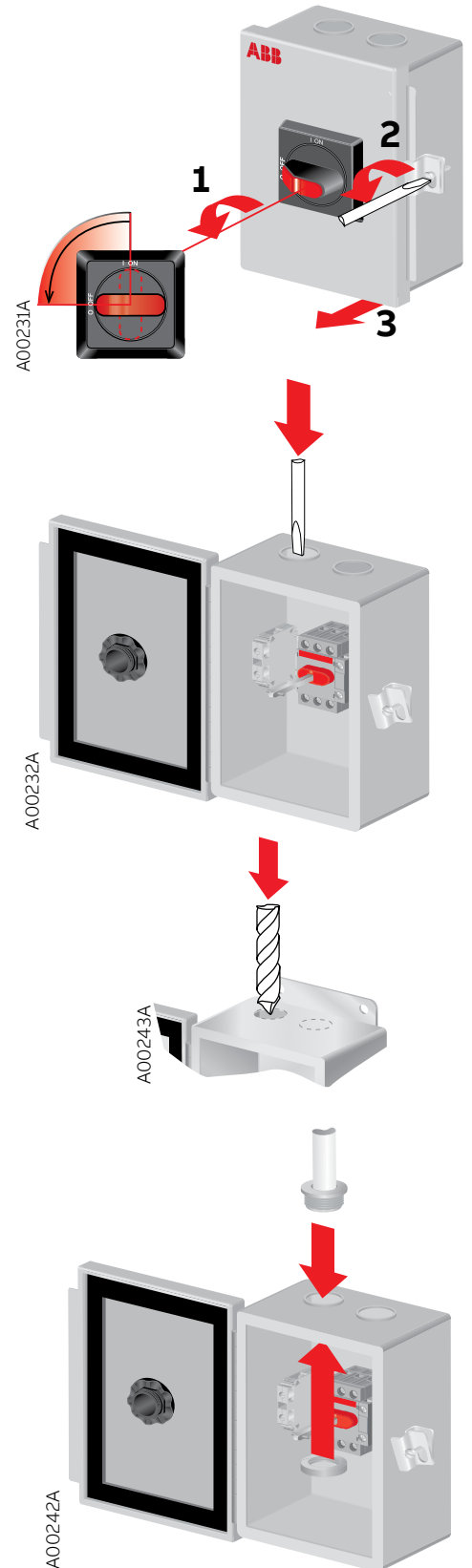
## eOT520\_, eOT530\_, eOT540\_ (3-pole)

Type 3R and 12, IP54 and Type 4/4X, IP65 not equipped with KOs.

## eOT520\_, eOT530\_, eOT540\_, eOT560\_, eOT560\_ (6-pole / change-over switch) and eOT580\_ (3-pole)

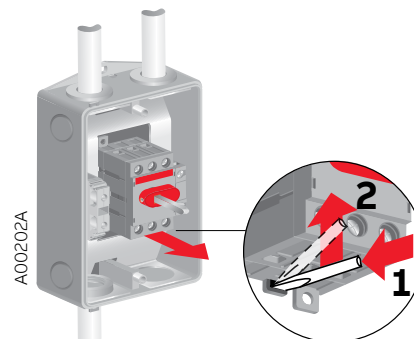
Two concentric  $\frac{1}{2}$ " and  $\frac{3}{4}$ " and one concentric  $\frac{3}{4}$ " and 1" KOs are provided in the top and bottom of the Type 1 enclosure. Type 3R and 12, IP54 and Type 4/4X, IP65 are not equipped with KOs.

- Drill proper holes for conduit hubs or use KOs if provided
- Protect switch from drilling debris.
- Install conduit hubs.
- Install enclosure using four (4)  $\frac{1}{4}$ " or M6 screws.

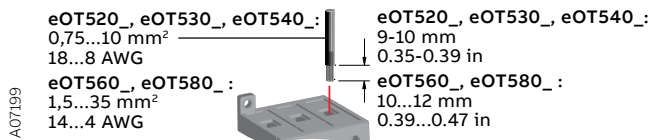


# Wiring

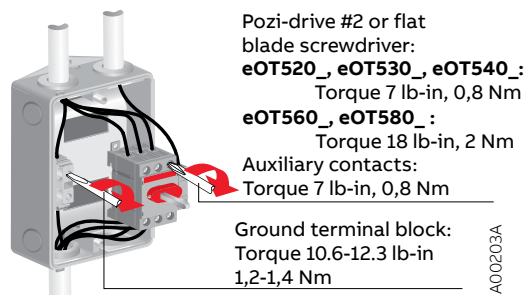
For ease of wiring, removing the switch from the enclosure before pulling the wire is recommended. A small flat-blade screwdriver may be used to release the DIN rail clip at the bottom of the switch, allowing it to be removed.



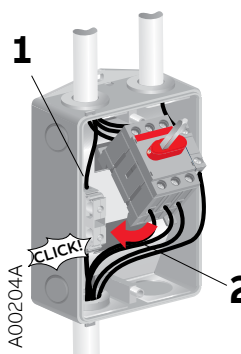
Connect power wires to switch terminal and attach ground wire to the ground terminal block inside the enclosure.



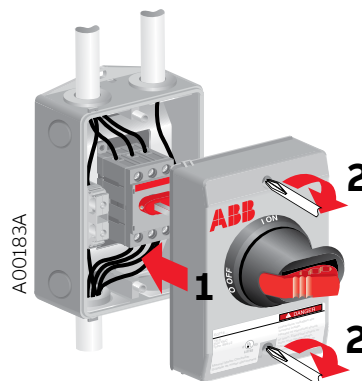
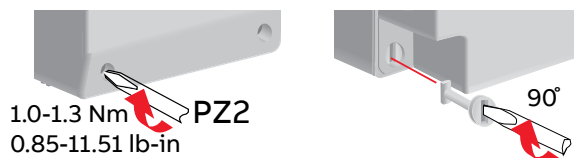
Reference the National Electric Code and all local codes for appropriate wire size and grounding requirements.



Reinstall the switch in the enclosure.



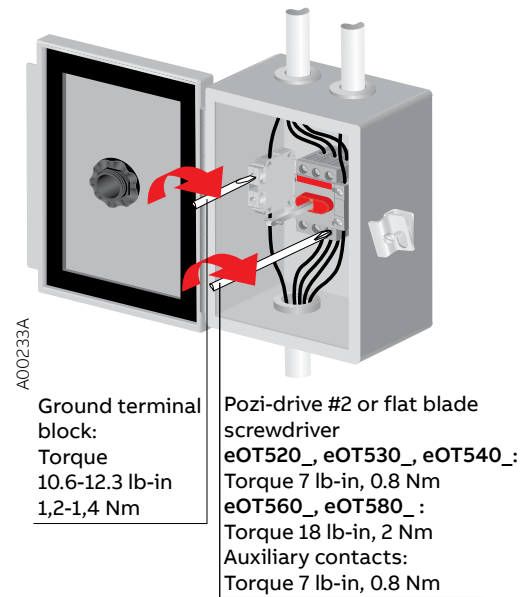
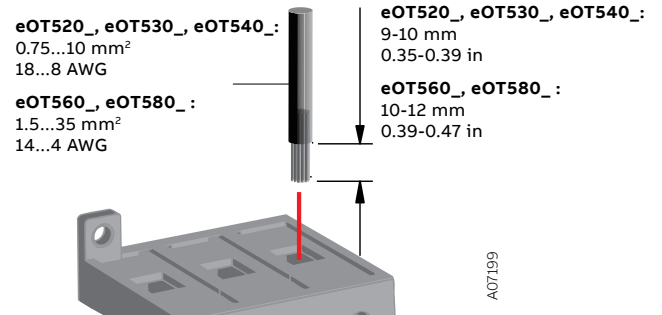
Reinstall enclosure cover. Note that both the switch and the operating handle on the cover must be in the OFF position. Tighten the cover screws.



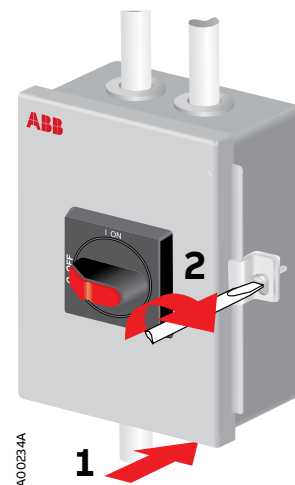
# Wiring

Connect power wires to switch terminals and attach ground wire to the ground terminal block inside the enclosure.

Reference the National Electric Code and all local codes for appropriate wire size and grounding requirements.

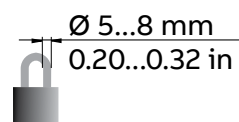
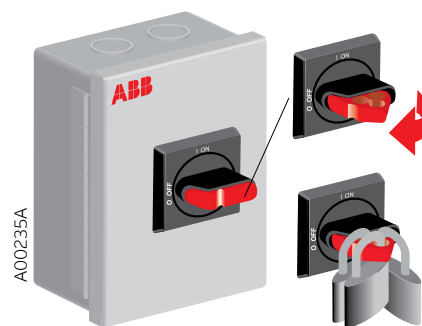
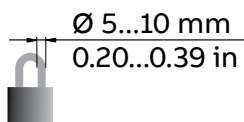
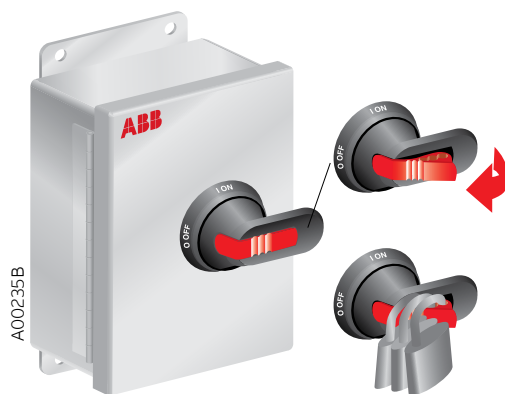
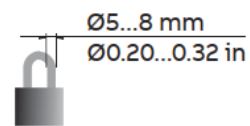
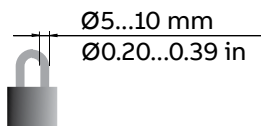
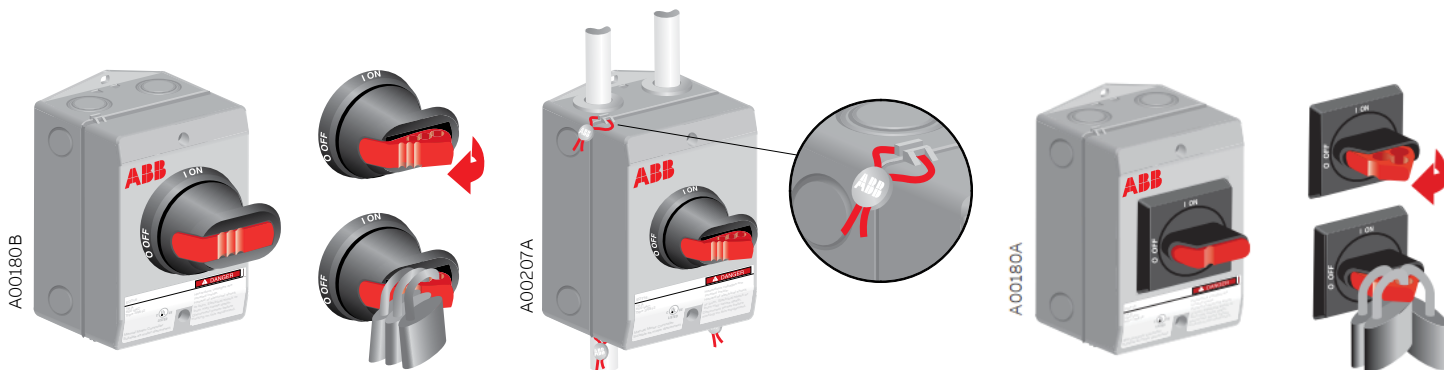


Close the enclosure door. Note that both the switch and the operating handle on the door must be in the OFF position. Tighten the lock's screw.



# Operating handle

Operating handle may be padlocked in the OFF position with up to three padlocks. When locked, the enclosure cover is interlocked and cannot be removed. All padlocks must be removed to gain entry to the enclosure.



# Dimension drawings

Enclosure switch	Amps	Poles	Switch type	Enclosure type	Outline drawings (click link to access file)
EOT520_ EOT530_ EOT540_	20 30 40	3	Standard (P)	Metal	<a href="#">KM753G34OL</a> <a href="#">(1SQC920106D0201)</a>
EOT520_ EOT530_ EOT540_	20 30 40	3	Change-over ( C )	Metal	<a href="#">KM864G34OL</a> <a href="#">(1SQC920108D0201)</a>
EOT520_ EOT530_ EOT540_	20 30 40	6	Standard (P)	Metal	<a href="#">KM864G34OL</a> <a href="#">(1SQC920108D0201)</a>
EOT560_ EOT580_	60 80	3/6	Change-over ( C ) / Standard (P)	Metal	<a href="#">KM864G34OL</a> <a href="#">(1SQC920108D0201)</a>
EOT520_ EOT530_ EOT540_ EOT560_	20 30 40 60	3	Standard (P)	Plastic	<a href="#">KP1018OL</a> <a href="#">(1SQC920111D0201)</a>
EOT520_ EOT530_ EOT540_	20 30 40	3	Change-over ( C )	Plastic	<a href="#">KP14110OL</a> <a href="#">(1SQC920112D0201)</a>
EOT520_ EOT530_ EOT540_	20 30 40	6	Standard (P)	Plastic	<a href="#">KP14110OL</a> <a href="#">(1SQC920112D0201)</a>
EOT560_	60	3	Standard (P)	Plastic	<a href="#">KP14110OL</a> <a href="#">(1SQC920112D0201)</a>
EOT560_ EOT580_	60 80	6	Standard (P)	Plastic	<a href="#">KP21313OL</a> <a href="#">(1SQC920113D0201)</a>
EOT580_	80	3	Standard (P)	Plastic	<a href="#">KP21313OL</a> <a href="#">(1SQC920113D0201)</a>
EOT560_ EOT580_	60 80	3	Change-over ( C )	Plastic	<a href="#">KP21313OL</a> <a href="#">(1SQC920113D0201)</a>



<b>BG</b>	Внимание! Опасно напряжение! Да се монтира само от лице с електротехническа квалификация.
<b>FR</b>	Avertissement! Tension électrique dangereuse! Installation uniquement par des personnes qualifiées en électrotechnique.
<b>MT</b>	Twissija! Vultaġġ perikoluż! Għandu jiġi installat biss minn persuna b'kompetenza elettroteknika.
<b>HR</b>	Upozorenje! Opasan napon! Postavljati smije samo elektrotehnički stručnjak.
<b>DE</b>	Warnung! Gefährliche Spannung! Installation nur durch elektrotechnische Fachkraft.
<b>PL</b>	Ostrzeżenie! Niebezpieczne napięcie! Instalacji może dokonać wyłącznie osoba z fachową wiedzą w dziedzinie elektrotechniki.
<b>CZ</b>	Varování! Nebezpečné napětí! Montáž smí provádět výhradně elektrotechnik!
<b>EL</b>	Προειδοποίηση! Υψηλή τάση! Η εγκατάσταση πρέπει να γίνεται μόνο από εξειδικευμένους ηλεκτροτεχνικούς.
<b>PT</b>	Aviso! Tensão perigosa! A instalação só deve ser realizada por um electricista especializado.
<b>DA</b>	Advarsel! Farlig elektrisk spænding! Installation må kun foretages af personer med elektroteknisk ekspertise.
<b>HU</b>	Figyelmeztetés! Veszélyes feszültség! Csak elektrotechnikai tapasztalattal rendelkező szakember helyezheti üzembe.
<b>RO</b>	Avvertizare! Tensiune periculoasă! Instalarea trebuie efectuată numai de către o persoană cu experiență în electrotehnică.
<b>NL</b>	Waarschuwing! Gevaarlijke spanning! Mag alleen geïnstalleerd worden door een deskundige elektrotechnicus.
<b>IE</b>	Rabhadh! Voltas guaiseach! Ba chóir do dhuine ag a bhfuil saineolas leictreicniúil, agus an té sin amháin, é seo a shuiteáil.
<b>SK</b>	Varovanie! Nebezpečné napätie! Montáž môže vykonávať iba skúsený elektrotechnik.
<b>EN</b>	Warning! Hazardous voltage! Installation by person with electrotechnical expertise only.
<b>IT</b>	Avvertenza! Tensione pericolosa! Fare installare solo da un elettricista qualificato.
<b>SL</b>	Opozorilo! Nevarna napetost! Vgradnjo lahko opravi le oseba z elektrotehničnim strokovnim znanjem.
<b>ET</b>	Hoiatus! Ohtlik pinge. Paigaldada võib ainult elektrotehnika-alane ekspert.
<b>LV</b>	Uzmanību! Bīstami - elektrība! Montāžas darbus drīkst veikt tikai personas, kurām ir atbilstošas elektrotehniskās zināšanas.
<b>ES</b>	¡Advertencia! ¡Tensión peligrosa! La instalación deberá ser realizada únicamente por electricistas especializados.
<b>FI</b>	Varoitus! Vaarallinen jännite! Asennuksen voi tehdä vain sähköalan ammattihenkilö.
<b>LT</b>	Dėmesio! Pavojinga įtampa! Dirbti leidžiama tik elektrotechniko patirties turintiems asmenims.
<b>SE</b>	Varning! Farlig spänning! Installation får endast utföras av en elektriker.
<b>CN</b>	警告！电压危险！只能由专业电工进行安装。
<b>RU</b>	Осторожно! Опасное напряжение! Монтаж должен выполняться только специалистом-электриком.

## Additional information

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