

LUMINO

V20S-MC1 RECESS CHANNEL

INSTALLATION MANUAL

IMV20-MC1-R2202

TECHNICAL SUPPORT

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Installers must read this document and any other referenced documents in full before commencing installation work. Failure to observe all installation guidance in this document may result in unsafe installation, cause permanent product damage and void product warranty.

This document is subject to change without notice. Check for latest documentation with LUMINO.
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HANDLING PRECAUTIONS

PLASTIC COVER / DIFFUSER

To avoid permanent damage, do not allow small or sharp objects to apply pressure on to the plastic cover / diffuser.

STRESS

Never stand or place weighted items on the product. The product is not vandal resistant and has no IK rating. Do not subject the product to impact forces.

POWER CABLES

The product end caps, power cables and connectors must not be pulled or twisted. Never pull the product by its power cables or hang it from its power cables or connectors.

CUTTING AND SAWING

The product must not be sawn, drilled or otherwise modified in any way.

DAMAGES

Inspect the product. If you see any damage upon unpacking, report to LUMINO immediately and do not install the product.

LOCATION

Protect V20S from dust, paint and harmful substances during installation and use. Ensure product is not exposed to VOC gases. Do not obstruct the product and its light output.



SAFETY GUIDANCE

WIRING GUIDE

Follow the guidance shown in the provided wiring guide, including maximum cable lengths, cable sizes and other wiring instructions. When running cables through an enclosure, ensure cables are protected from damage, separated from mains voltage cables and anchored against being pulled. Make connections appropriate for the IP rating of the product.

QUALIFIED INSTALLER

Installation must be carried out by a qualified person and conducted in accordance with local regulations and applicable standards.

THERMAL MANAGEMENT

Ensure ambient temperature (T_a) does not exceed 40°C (104°F) and case temperature (T_c) does not exceed 70°C (158°F). Exceeding maximum T_c will cause permanent damage and void the product warranty.

Allow sufficient clear air space for the LED drivers, as well as suitable access to the drivers as specified on installation instructions.

REPAIR AND REPLACEMENT

If the product is not functioning, contact LUMINO to register a Service Call for factory repair or replacement. Product's light source is replaceable by a qualified professional. See page 3 for Ecodesign and end of life information.



DRIVERS

POWER OFF

Product and driver must not be live wired. Switch off power before work begins. Follow instructions and guidance for the make and model of driver being used.

24VDC SELV

Only use drivers with a maximum output of 24VDC. Drivers must be SELV, constant voltage with both overload and short-circuit protection.

DIMMERS

Check dimmer is compatible with the driver and certified to local regulations.

INRUSH CURRENT

Many constant voltage LED drivers can have high inrush current at power-on. Driver's inrush current can be many times the normal operating current. Use a suitable MCB. Type C MCBs are normally suitable but if inrush current is a persistent problem an inrush suppressor may be required.

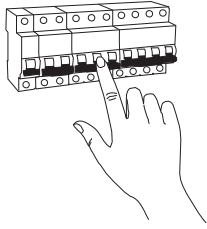
PROTECTION

Use only with 24VDC Class 2 power unit to UL1310 standard with overload and short-circuit protection. Rate drivers for at least 10% above load. Driver protection circuitry must not be relied upon to protect secondary 24VDC electrical circuits from damage caused by over-current or short circuit. DC fuses or DC electronic circuit breakers are recommended for full protection. Allow for access to drivers for maintenance and sufficient clear air space for ventilation.

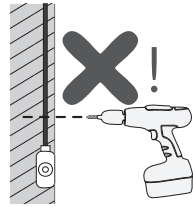
CABLING

Do not overload the driver. Damage will be caused by incorrect input voltage, reverse polarity or short circuit. Plan for loads, driver locations, dimming and cabling prior to start of work. Ensure basic insulation is maintained between mains and dimming control wires.

CHECK FIRST!



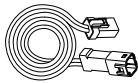
TURN OFF POWER!
COUPER LE COURANT!
STROM ABSHALTEN!
CORTE CORRIENTE!



CHECK THE WALL!
VÉRIFIER LE MUR!
DIE WAND ÜBERPRÜFEN!
COMPRUEBE LA PARED!

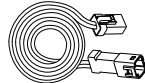
ACCESSORIES

JWPF CLICK-CONNECTOR CABLE



VECA-CA0250-__MF-R1

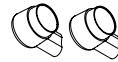
- 2P/3P/4P/5P Power Link
- 250mm cable length



VECA-CA1000-__MF-R1

- 2P/3P/4P/5P Power Link
- 1000mm cable length

IDC CONNECTORS



VECA-CA901-R1

- Sealant Connector
- Pair 3A Max

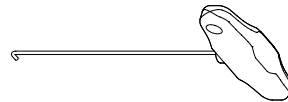
SELF-CLOSING CABLE SLEEVING



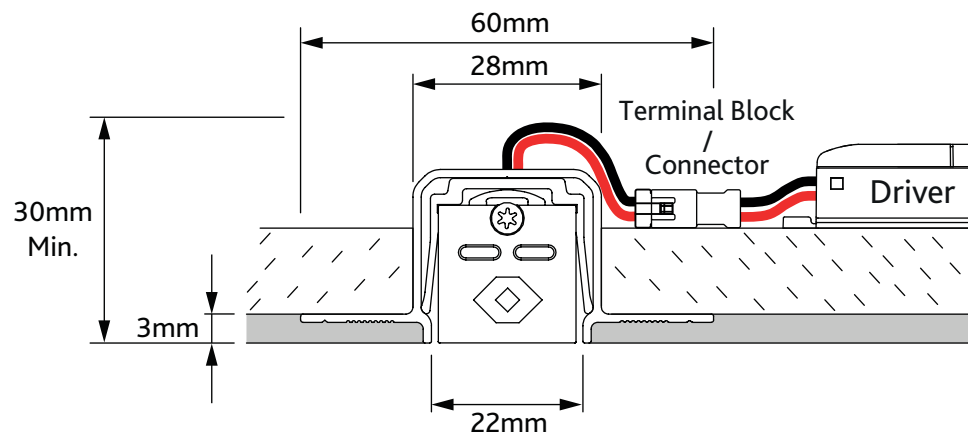
VECA-SL001-R1

- 1m Cable Sleeving

VECTOR REMOVAL TOOL



VECA-MA505-R1



INSTALLATION

1. Plan Installation

Check the actual product dimensions against the planned installation. V20S Mounting Channel may need to be site cut to the correct length. Never cut the V20S fittings. Runs of multiple fittings may have to be installed in a particular sequence.

2. Prepare Power Supply

This product requires a 24VDC power supply. Please refer to provided wiring guide document. Failure to follow guide may result in damage to the product and voiding of warranty.

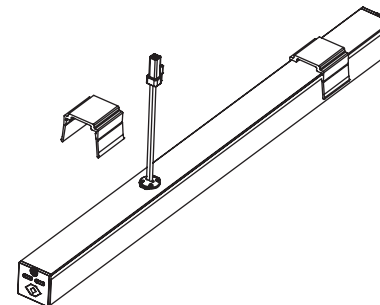


3. Channel Clips

Fix all the plastic channel clips directly onto the V20S fittings. Do not fit the clips to the mounting channel until they are pre-attached to the V20S fittings.

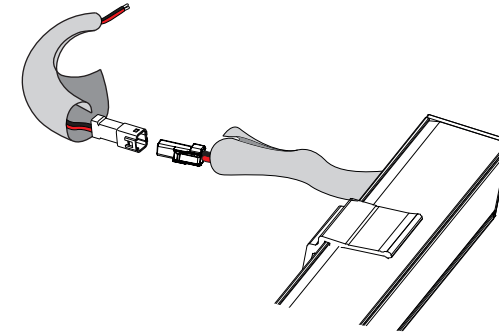
Use **4 equally spaced clips per metre**.

Products shorter than 505mm may be held by just 2 clips. There must always be a clip within 100mm of each end of the V20S.



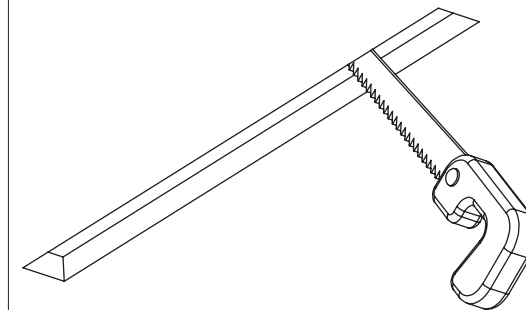
4. Apply Cable Sleeving

Apply self-closing cable sleeving to power feed and cable entry cables.



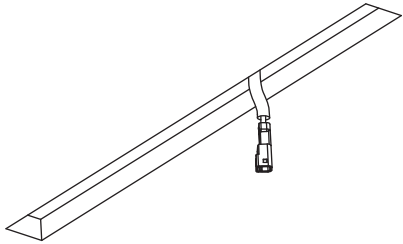
5. Cut ceiling slot

Cut precisely, a slot into the plasterboard ceiling. Cut slot **width to 30mm max.**



6. Fix the channel to the ceiling

Pull 24VDC wired power cable through the slot. The cable should have cable sleeving

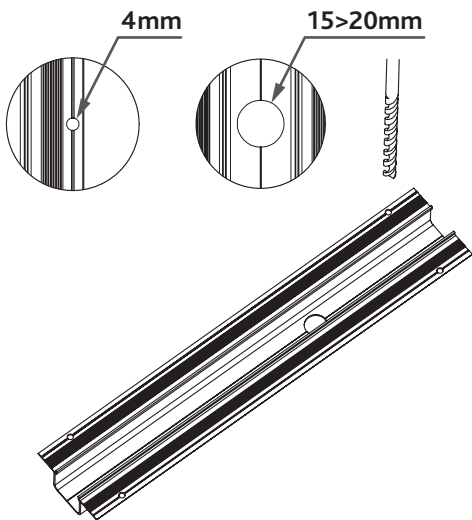


7. Pre-drill the mounting channel

Drill **4mm fixing holes** on both sides of the mounting channel wings, every 500mm along the channel.

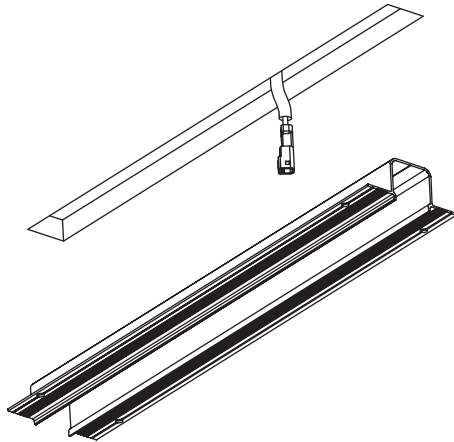
For cable entry identify position of the start of the connection and mark and drill **15>20mm** hole at location at the start of the circuit run.

For interconnection identify mid point and mark and drill **15>20mm** hole / holes.

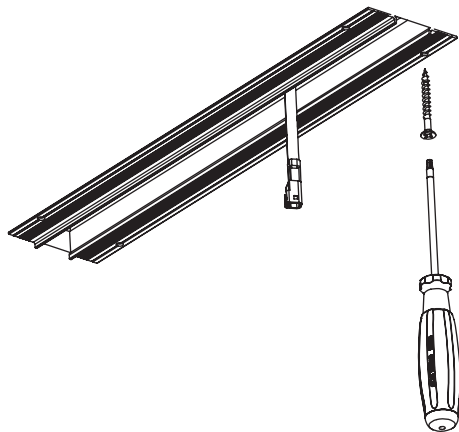


8. Fix the channel to the ceiling

Pull the power cable into the channel

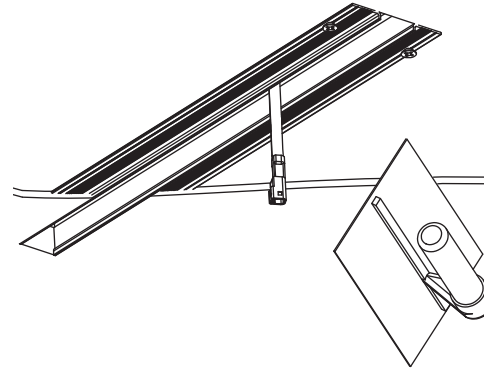


Securely fix the mounting channel to the plasterboard. Recommended screw size is a № 4 gauge plasterboard screw. If necessary, use alternative fixings of a similar gauge and size suitable for the material being fixed into. Make sure the screw heads sit below the lowest edge of the channel. If they protrude, use smaller-head screws to ensure they will be covered by the plaster skim.



9. Plaster-in

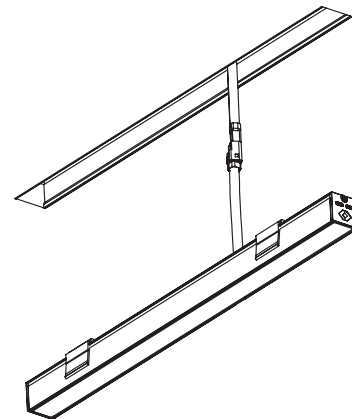
Apply skim to plaster-in the recessed channel.



10. Connect to 24VDC power

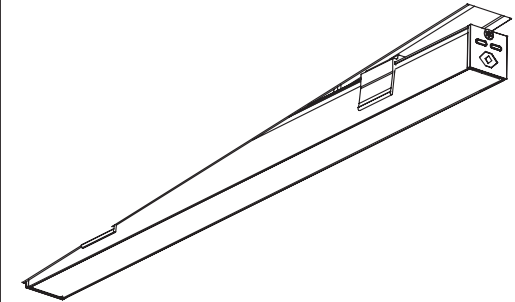
With the power off. Connect and feed the power cables into the above void.

Finalise all electrical connections and test the circuit. If the product does not function as expected, turn power off immediately and check all connections.



11. Install V20S

Align with the channel and push V20S into the channel. Ensure the product is fully clipped in place and check it is not misaligned or misplaced due to screw heads or wires. Ensure that cables are not pinched when installed.



Removal

To remove V20S, use a tool to prise one end down and out of the channel and then gently lower the fitting.

