Certified Laser Blocking Roller Blinds to EN 60824-4

Operation and Maintenance Manual

Lasermet Ltd
Lasermet House
137 Hankinson Road
Bournemouth
BH9 1HR
United Kingdom

Tel: 44 (0) 1202 770740
Fax: 44 (0) 1202 770730

office@lasermet.com
www.lasermet.com

Specialists in Laser Safety

Registered in England: No. 2084778

VAT No. GB 522 0236 02

Roller blind manual v3
30012014
Contents

Declaration of Conformity ............................................................................................................. 3
Overview ........................................................................................................................................ 4
Specifications: Medium Sized, Chain Operated Laser Blocking Roller Blind................................. 5
Specifications: Medium Sized Motorised Laser Blocking Roller Blind ............................................. 7
Specifications: Large Laser Blocking Roller Blind for operation by chain, crank or motor ................. 9
Specification Sheet and Measurement ............................................................................................ 11
Encapsulated Roller blind - (medium sized) - Fitting Instructions .................................................... 17
Mounting ............................................................................................................................................ 19
Safety notice and recommendations ................................................................................................. 19
Holder ............................................................................................................................................... 20
Fascia ................................................................................................................................................. 21
Encapsulated blind (or cassette) .................................................................................................... 22
Wiring instructions for motorised blinds .......................................................................................... 27
Maintenance ...................................................................................................................................... 28
Cleaning .......................................................................................................................................... 28
Laser Blocking Material Test Report ............................................................................................... 28
Test results ........................................................................................................................................ 29
Programming the controller for motorised blinds ........................................................................... 30
Warranty for laser blocking roller blinds ......................................................................................... 32
Contact Information ....................................................................................................................... 32
LASERMET LIMITED

Laser Blocking Curtains, Roller Blinds & Window Blocks

Made from Lasermet Material:

BLOCK-MAT-HP2
BLOCK-MAT-HP3WW
BLOCK-MAT-HP4BB

DECLARATION OF CONFORMITY

This is to declare that the above Laser Blocking Curtains, Roller Blinds & Window Blocks have been found to comply with the requirements of the following directives:

Machinery Directive 98/37/EC

And meet the following European Standard:


The relevant Protective Exposure Limits are:

<table>
<thead>
<tr>
<th>Irradiated Area</th>
<th>PEL (T3) 10 s</th>
<th>PEL (T2) 100 s</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 mm²</td>
<td>3.9 MW/m²</td>
<td>2.2 MW/m²</td>
</tr>
<tr>
<td>2000 mm²</td>
<td>0.62 MW/m²</td>
<td>0.35 MW/m²</td>
</tr>
</tbody>
</table>

Supplier:

Lasermet Limited
137 Henkinson Road
Bournemouth
BH9 1HR
Dorset
United Kingdom

Country of Origin: United Kingdom

Signed: [Signature]
Date: 3rd June 2013

Paul Tozer
Managing Director
Overview

All Lasermet laser-blocking roller blinds are made from Lasermet's specially developed laser blocking material and are CE marked and certified to EN 60825-4 (Safety of Laser Products Part 4: Laser Guards). (Hospitals in the UK should adhere to the requirements of the NHS Estates HBN 26 – “Facilities for surgical procedures”).

Laser Blocking Roller Blinds

Made-to-measure to fit virtually any size of window, Lasermet laser blocking roller blinds are available in standard or encapsulated variants and can be supplied for either surface or recessed mounting. The maximum size is 3.5m drop x 3.5m width.

Standard Roller Blinds

These blinds are used in manufacturing facilities, operating theatres and laboratories wherever lasers are in use, to prevent laser radiation from escaping. When using them for non-recessed windows it is advisable to allow an extra 50 mm on the height and width, thereby ensuring that there is no possibility of laser beams passing through the window.

Encapsulated Roller Blinds

Lasermet's encapsulated roller blinds are built into a white finish aluminium frame, which encapsulates the top, both edges and bottom of the blind. This eliminates any possibility of laser beams passing round the sides of the blind, blocks out all light and provides a neat finish. They are operated by either, a chain, crank handle or electric motor.

Several options are available for the encapsulated laser blocking roller blinds as follows:-

Chain operated – Simple to operate and use
Crank handle operated – Ideal for installations where the blind may be difficult to reach or where chain operation is not appropriate
Motorised (mains 230VAC) - Used where large heavy blinds are in operation
24VDC wireless - This is the most popular option where either single or multiple blind sets can be used. For example, a room could have 4 blinds and they could all be operated by a single switch if required.
24VDC dry contact - The low voltage provides an added level of safety, while eliminating the wireless function for sensitive environments.
Interlocked blind - A maglock switch is positioned at the bottom of the blind so that when the operator switches the blind to be lowered the interlock switch is energised. Either a single channel interlock can be used or a dual channel interlock switch can be used with the ICS-6 or ICS-15 Interlock controllers.
Integrated interlocked blind - The motorised blind can be connected to Lasermet's interlock controllers e.g. ICS-5, ICS-6 or ICS-15. The controller can then enable the motorised blind to close and will only permit the laser to be powered once the interlock switch has been closed confirming that the blind is down.
Specifications: Medium Sized, Chain Operated Laser Blocking Roller Blind

Dimensions
- Width: min. 0.30 m, max. 2.80 m
- Height: max. 3.00 m
- Max. braking capacity 5.0 kg

Manually operated blind
- Side-pull gear with protection against unwinding by means of a Brake mechanism.
- The Brake mechanism permits the exact, steplessly adjustable positioning of the blind in any desired position.

Cassette profile: Round 78 x 77.5 extruded aluminium (Al Mg Si 0.5 F22) fitted on the round end cap of the brackets.
Tube shaft: Ø27.0 / Ø36.0 of steel (0.35 mm K40).
Precision shaft: Ø29.0 / Ø38.0 extruded aluminium (Al Mg Si 0.5 F22).
Two-profile bottom rail: 11.0 x 21.0 mm extruded aluminium (Al Mg Si 0.5 F22), also used for cord guiding and profile guiding, optional tight brushes.
Bottom rail: Ø15.0 mm round extruded aluminium (Al Mg Si 0.5 F22).
Plastic parts: High-quality, UV-resistant, temperature-resistant and abrasion-proofed material.
Cord guiding: Max slope angle max. 15°. Steel cord, plastic-coated (Ø1.0 mm), in black.
Profile guiding: The roller blind material extends 20 mm on both sides into the profile guiding.
- Angle of inclination max. 15°.
Profile: Colour matches the cassette colour.
Profile Dimensions: Cross section = 46 x 26 mm / Length = max. 4.00 m.
Accessories: Tight brushes within the moulding for the closing profile, and closing profile of the roller blind material.
Coupling: Up to 3 roller blinds of same type with a single operation. Optional Cord guiding

Operation
- Manual operation with nickel plated, steel ball chain Ø4.5 x 6.0 mm
Operation side: Optional left or right.
Operation height: Roller blind height x 0.75 (or individual).
Bead stop: By matching chain connector.
Colour: Cassette profile round 78 x 77.5 Powder coated white (RAL 9016)
Bottom rail: Two-profile bottom rail 11.0 x 21.0 mm Powder coated white (RAL 9016)
Profile guiding: 46 x 26 Powder coated white (RAL 9016)
Fixing brackets: Galvanized, white (RAL 9016)
Visible plastic components: White
Clip fixing: On wall, ceiling or reveal.
Medium Sized Roller Blind

LMRB 26 – Measuring and options.

Ceiling fixing

Wall fixing

Clearance

Cord guiding

Reveal fixing

Wall fixing

Cord guiding holder

Cover profile holder

Clip

Closing profile

Profile guiding
Specifications: Medium Sized Motorised Laser Blocking Roller Blind

**Dimensions**
- **Width:** min. 0.30 m — max. 2.80 m
- **Height:** max. 3.00 m
  - max. braking capacity 3.5-4.5 kg

**Roller blind with drive motor:**
- The roller blind is wound and unwound using an electric motor. The motor can be operated via switch on the wall or by remote control and permits the exact, stepless positioning of the fabric in any desired position.

**Cassette profile**
- Round 78 x 77.5mm extruded aluminium (Al Mg Si 0.5 F22) fitted on the round end cap of the brackets.

**Tube shaft**
- Ø27.0 / Ø36.0 steel (0.35 mm K40)

**Precision shaft**
- Ø29.0 / Ø38.0 extruded aluminium (Al Mg Si 0.5 F22), also used for cord guiding and profile guiding, optional tight brushes.

**Two-profile bottom rail**
- 11.0 x 21.0 mm extruded aluminium (Al Mg Si 0.5 F22), also used for cord guiding and profile guiding, optional tight brushes.

**Bottom rail**
- Ø15.0 mm round extruded aluminium (Al Mg Si 0.5 F22)

**Plastic parts**
- High-quality, UV-resistant, temperature-resistant and abrasion-proofed material.

**Profile guiding**
- The roller blind material extends 20 mm into the profile guiding on both sides.
  - Angle of inclination max. 15°.

**Profile**
- Colour matches the cassette colour.

**Profile dimensions**
- Cross section = 46 x 26 mm / Length = max. 4.00 m.

**Accessories**
- Tight brushes within the moulding for the closing profile and closing profile of the roller blind material cover.

**Coupling**
- Up to 3 roller blinds of same type with a single operation. Optional Cord guiding

**Motor Operation**
- **Roller blind drive motor SOMFY Sonesse 30 RTS**
  - Protection class: II, Protection index: IP 31, Rated torque: 2 Nm, Rated speed: 28 rpm, Rated voltage: 24 VAC, Frequency: 50 Hz, Rated current: 750 mA, Weight: 0.495 kg, Tube diameter: 36, 38 mm, Length: 407 mm, Connection: 2.5 m cable, Connecting cable: 2 x 0.25 mm².

**Cassette profile**
- 78 x 77.5 Round

**Colour**
- Powder coated white (RAL 9016)

**Two-profile bottom rail**
- 11.0 x 21.0 mm: Powder coated white (RAL 9016)

**Bottom rail**
- Round Ø15.0 mm: Powder coated white (RAL 9016)

**Profile guiding**
- 46 x 26 mm: Powder coated white (RAL 9016)

**Fixing brackets:**
- galvanized, white (RAL 9016)

**Visible plastic components**
- White

**Fixing**
- **Clip fixing** on wall, ceiling or reveal.
  - **Cord guiding:** the guide wire fixings (plastic) can be fitted directly on the frame or underneath.
Roller Blind Instruction Manual
Medium Sized Motorised Roller Blind
LMRB 26 – Measuring and options.

Ceiling fixing

Wall fixing

Cord guiding

Reveal fixing

Wall fixing

Clip

Cover profile holder

Closing profile
Profile guiding
Specifications: Large Laser Blocking Roller Blind for operation by chain, crank or motor

LMRB- RL12/-RL62/-RL72

RL12 Roller blind with round cassette profile and lateral chain operation.
RL62 Roller blind with round cassette profile and motor operation.
RL72 Roller blind with round cassette profile and lateral crank operation.

Roller blind width: max. 4.00 m
Roller blind height: max. 4.00 m
Hanging weight: max. 12.0 Kg
(by chain operation with lifting spring)
Operation: Optional left or right
Ø4.5 x 6 nickel-plated stainless steel ball
Crank operation (white or grey)
Motor operation
Operation height Standard ball chain = Roller blind height
Crank length optional 1.5 m, 2 m or 2.5 m
Colour Profile: Standard white RAL 9016
Mounting Simple mounting on ceiling or wall
with universal bracket

Wall mounting

Ceiling mounting
Large Laser Blocking Roller Blind for operation by chain, crank or motor

Profile guiding

The laser blocking material extends 36 mm into the profile guiding. Maximum angle of inclination 15°

Profile colour Matches the cassette colour.
Dimensions Cross section = 70 x 27 (47) mm / Length = max. 4.00 m.
Accessories Tight brushes for moulding for the closing profile and closing profile of the hanging.

Note: The roller blind and the profile guiding must be mounted parallel and perpendicular.
Specification Sheet and Measurement

This sheet must be filled out for every encapsulated roller blind ordered. If there are a number of identical roller blinds then one sheet can be filled in. However, if there are any differences between the roller blinds then a separate sheet must be filled out for each one. Fax completed form to +44 (0) 1202 770730, or email to orders@lasermet.com

A purchase order is also required before production can begin.

Please tick one box only and then fill in the appropriate form overleaf and finally complete the table at the bottom of this page.

<table>
<thead>
<tr>
<th>The shaded section is for Lasermet use only</th>
<th>Lasermet Job Number</th>
<th>Lasermet Purchase Order No.</th>
</tr>
</thead>
</table>

Tick one box

- Top fix
- Face fix

Quantity of this size and type

Top fix blinds are normally fitted inside a recessed window. In this case the exact aperture sizes must be quoted on form A. The blind will be made to fit within this space.

Face fix blinds are normally fitted to cover a window which is not recessed (e.g. viewing panel on door) or occasionally to cover an aperture (where it is not possible to fit the blind inside the aperture). In this case quote the height and width of the aperture to be covered on form B. Note that the outside dimensions of the blind casing will be substantially larger. These dimensions are shown on page 3 ("Face fix roller blinds").

Please complete the following table to ensure all options have been addressed for each blind.

<table>
<thead>
<tr>
<th>For Roller Blind Operation</th>
<th>√</th>
<th>Top fix / Face fix</th>
<th>Left/Right operation</th>
<th>External Blind Width mm</th>
<th>External Blind Height mm</th>
<th>Interlocked? Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chain Operated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crank Handle</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24v Wireless control</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24v Motorised (Dry contact)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mains Motorised 230V AC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notes / Quantity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Form A – Top Fix blind

Please give all measurements in mm

<table>
<thead>
<tr>
<th>Internal Aperture Width</th>
<th>Measured at top of aperture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Measured in centre of aperture</td>
</tr>
<tr>
<td></td>
<td>Measured at bottom of aperture</td>
</tr>
<tr>
<td></td>
<td>Smallest of above 3 measurements</td>
</tr>
</tbody>
</table>

**External Blind Width Including Frame**

(this should be the above figure less 5 mm)

<table>
<thead>
<tr>
<th>Internal Aperture Height</th>
<th>Measured at left side of aperture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Measured at centre of aperture</td>
</tr>
<tr>
<td></td>
<td>Measured at right side of aperture</td>
</tr>
<tr>
<td></td>
<td>Smallest of above 3 measurements</td>
</tr>
</tbody>
</table>

**External Blind Height Including Frame**

(this should be the above figure less 5 mm)

# Form B – Face Fix blind

Please give all measurements in mm

<table>
<thead>
<tr>
<th>Width of aperture to be covered</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>External Blind Width Including Frame</strong> (see “Face fix roller blinds” drgs)</td>
</tr>
<tr>
<td>---------------------------------</td>
</tr>
<tr>
<td>Height of aperture to be covered</td>
</tr>
<tr>
<td><strong>External Blind Height Including Frame</strong> (see “Face fix roller blinds” drgs)</td>
</tr>
</tbody>
</table>
Face fix roller blinds

**Medium or Large?**
Order the Medium Roller Blind if the overall dimensions are up to 2000mm wide or up to 1500mm high.
If either dimension is greater, a Large Roller Blind is required.
Ensure there is sufficient clearance around the aperture to accommodate the blind.

**Medium Roller Blind**

Add a total of 110mm to the aperture width

Add a total of 140mm to the aperture height

**Large Roller Blind**

Add a total of 150mm to the aperture width

Add a total of 180mm to the aperture height

**Worked example**

**Aperture**

840mm

720mm

Order Face Fix Blind as follows...

720 mm Aperture height
+ 140 mm Blind height

= 860 mm Total blind height

840 mm Aperture width
+ 110 mm Blind

= 950 mm Total blind width

**Aperture**

2200mm

2300mm

Order Face Fix Blind as follows...

2300 mm Aperture height
+ 180 mm Blind

= 2480 mm Total blind height

2200 mm Aperture width
+ 150 mm Blind

= 2350 mm Total blind width
Measuring Roller Blinds

Encapsulated Top fix blind: measuring the aperture

Top fix is where the blind is attached at the top within the internal aperture

Step 1.

Measure the dimensions shown in the example below flush on the wall

Lasermet advises that the measurements “A” (and “D”) are made at approximately 1cm down from the very top of the aperture. (This is because when the walls are plastered, there is often excess plaster at the very top of the sides of the aperture making the width slightly narrower. So measurement A may be slightly narrower than measurement B or C).

Step 2

Then measure the dimensions shown in the example below but 85mm in from the wall surface.

Smallest of the above 6 dimensions = mm
Step 3
Measure the dimensions shown in the example below flush on the wall.

Step 4
Then measure the dimensions shown in the example below but 85mm in from the wall surface.

Smallest of the above 6 dimensions = mm
Face fix blind: measuring the aperture

If you want to have the roller blind to be face fixed then you need to measure the aperture as follows.

Please note that if there is a window sill that protrudes into the room, the roller blind will be obstructed from going any further down past the window.

Step 1

Measure the dimensions shown in the example below flush on the wall

![Diagram of Step 1 measurement]

<table>
<thead>
<tr>
<th>U</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>mm</td>
</tr>
<tr>
<td>W</td>
<td>mm</td>
</tr>
<tr>
<td>Largest of the above</td>
<td>mm</td>
</tr>
</tbody>
</table>

Step 2

Measure the dimensions shown in the example below flush on the wall

![Diagram of Step 2 measurement]

<table>
<thead>
<tr>
<th>X</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>mm</td>
</tr>
<tr>
<td>Z</td>
<td>mm</td>
</tr>
<tr>
<td>Largest of the above</td>
<td>mm</td>
</tr>
</tbody>
</table>
Carefully unpack the kit and identify the components shown in Figure 1.

Fit the L shaped bracket to the framework using the face fix or top fix holes. See Figure 2.

Note, the L shaped brackets should be positioned 100mm in from either end and no more than 600mm apart.

If the space is greater than 600mm 24” fit an additional bracket or brackets (supplied).

Make sure the grub screw is located at the bottom. See Figures 2 and 3.

Locate the top of the cassette into the lip at the front of the L shaped bracket (see Figure 4).

Push the bottom of the cassette back into the bottom of the bracket and secure by turning the grub screw (using a 2mm Allen key).
Position the side guides by offering up each guide to the cassette making sure the edge of the side guide is positioned on the outside of the cassette end cap. See Figures 5 and 6.

Then draw a line down a short section of the side guide on window frame with a pencil. This is to locate the edge of the where the spring clip will be fitted. (See Figure 7).

Remove the side guide and fasten the spring clips to the framework as shown in Figure 8.

Repeat this procedure with the guide on the other side.

Locate the edge of the spring clip with the edge of the side guide and snap into place. Repeat with the other side so it appears as in Figure 9.

Note the spring clips should be positioned no more than 1000mm (36") apart.
Mounting

Safety notice and recommendations

Please note, blinds must be fitted by skilled personnel. Any incorrectly installed blind could result in an unsafe installation. Alterations to the blind must be approved by Lasermet. Always use appropriate screws and plugs suitable for the wall or ceiling where the blind is to be fitted.

In the interest of safety, for example in hospitals, please adjust pull cords and chains to keep them out of reach of children and/or patients where appropriate and install safety devices such as cleats and cord tidies to limit access to cords.
Encapsulated blind (or cassette)
Encapsulated blind (or cassette)
Cord guiding
Side profile
Operation
Wiring instructions for motorised blinds

You must read this before wiring up the power supply to the motor in the motorised roller blind.

Failure to observe and implement the correct wiring as shown will invalidate the warranty and will destroy the motor.

The wiring must be done by a competent person.

The white wire is the +24VDC from the power supply. The black wire is the negative terminal from the PSU.

Connect the white wire from the PSU to the Grey/White wire from the roller blind motor.

Connect the black wire from the PSU to the white wire from the roller blind motor.

If the blind is interlocked, the 4 interlock wires are coloured red, yellow, green and blue and are not connected with the motor.

Wiring for dry contact switch

If a dry contact switch arrangement is to be used, it should be wired as shown here.
Maintenance

Lasermet’s laser blocking roller blinds do not require regular maintenance. There are no preventative maintenance requirements.

Cleaning

However, if the unit needs to be cleaned abrasive cleaning materials must not be used as they may cause damage.

The laser blocking material can be cleaned with soapy water (mild detergent) or it can be cleaned with Klorosept (or similar — used in hospital environments) using a soft cloth or similar. The laser blocking material has been tested with Klorosept as described below. Klorosept is therefore recognised as a safe fluid to use when cleaning Lasermet’s laser blocking roller blind material.

Laser Blocking Material Test Report

In an in-house study, NaDCC solutions (Klorsept) at concentrations up to 10,000mg/l available chlorine were used to evaluate the effects of chlorine on the texture, appearance (colour), smell and weight of lasermet blocking curtain samples.

The lasermet material which was supplied by Lasermet UK was divided into 4 equal size pieces measuring 153x168mm approx and subjected to a range of test parameters as detailed below. Note: soaking of blinds is not a standard practice in hospitals but was used as an extreme worst case exposure scenario to exaggerate any possible adverse effects.
## Test results

<table>
<thead>
<tr>
<th>No.</th>
<th>Conditions</th>
<th>Weight before</th>
<th>Weight after 2 hours</th>
<th>Weight after 24 hours</th>
<th>Appearance/ Smell/ Texture after 2 hours</th>
<th>Appearance/ Smell/ Texture after 24 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sample wiped (once) with 10,000mg/l solution and left to dry in air</td>
<td>28.1328g</td>
<td>28.1356g</td>
<td>28.1474g</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td>2</td>
<td>Control Sample left to soak in Deionised water</td>
<td>27.8612g</td>
<td>28.7328g</td>
<td>29.8128g</td>
<td>No Change</td>
<td>No Change</td>
</tr>
<tr>
<td></td>
<td>Allowed to air dry for 30 mins = 28.2938g &amp; still drying</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Returned to solution</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Sample left to soak in 1,000mg/l solution</td>
<td>28.4258g</td>
<td>29.3188g</td>
<td>30.8120g</td>
<td>No Change</td>
<td>No Change in appearance or texture. Bitter-sweet odour from sample</td>
</tr>
<tr>
<td></td>
<td>Allowed to air dry for 30 mins = 29.0236g &amp; still drying</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Returned to solution</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Sample left to soak in 10,000mg/l solution</td>
<td>28.4198g</td>
<td>29.4652g</td>
<td>31.4662g</td>
<td>No Change in appearance or texture Slight bitter-sweet odour</td>
<td>No Change in appearance or texture Slight bitter-sweet odour</td>
</tr>
<tr>
<td></td>
<td>Allowed to air dry for 30 mins = 29.2296g &amp; still drying</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Returned to solution</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Programming the controller for motorised blinds

There are three buttons:
- Up
- “My” favourite position and Stop button
- Down

1. Setting the run time

1. Press and hold the Up & Down buttons together for 3 seconds.
   The blind jogs.

2. Press the Up button to raise the blind to the top limit position.

3. Press and hold the Stop & Down buttons together for 3 seconds.
   The blind will move down for 10 seconds.

4. Press and hold the Down button until the blind reaches the lower limit position.

5. Press and hold the Stop & Up buttons together for 3 seconds.
   The blind will move up for 10 seconds.

6. Press and hold the Up button until the blind reaches the upper limit position.

7. Press and hold the Stop button for 3 seconds.
   The blind jogs.

8. Press and hold the Stop button until the blind jogs twice.
   Run time set.
1. **Setting an intermediate position**

NOTE: The intermediate position is set by default to:
Roller - ⅓ of the roller height.
Venetian - fully retracted position and slats tilted to 45 degrees.

"Use the Up or Down button to move the product towards the desired intermediate position".

2. **Deleting the intermediate position**

   - Go to the intermediate position by pressing the Stop button when the blind is fully open.
   - Press the Stop button for 5 secs.
   - Press the Stop button for 5 secs.
   - Shunt IP position deleted

3. **Using the intermediate position**

   - Press the Stop button when the blind is fully open.
   - Move the blind to the desired intermediate position

   - Press the Stop button for 5 secs.
   - Press the Stop button for 5 secs.
   - Shunt "MY" Position set
Warranty for laser blocking roller blinds

Lasermet provide a 12 month warranty for defects in materials and manufacture, from the date of installation or delivery. This warranty covers the laser blocking material on the blind and the structure of the blind unit. Installations completed by Lasermet are covered against defects in workmanship for 12 months.

The motor has a five year warranty on electrically driven blinds. Electrical connections must be made in accordance with the installation instructions. Any failure to follow these instructions invalidates the warranty as any incorrect wiring can cause irreparable damage to the motor.

Damage or defects caused by other factors are not covered. For example, industrial contamination, incorrect cleaning, storm damage. Consequential loss is not covered under warranty. Compensation for indirect or direct loss or damage is expressly excluded. Rectification of the defects or a replacement delivery does not initiate a new warranty period. No claims, under the warranty, are valid in the case of minor, technically unavoidable deviations in colour, patterns or structure or in the case of dimensional deviations of ± 5 mm.

All roller blinds are made-to-measure units. For this reason, cancellation of orders placed and the return and or exchange of the goods are excluded. For all deliveries, payments and other legal transactions, English law takes precedence for any litigation.

Contact Information

Lasermet Ltd
Lasermet House
137 Hankinson Road
Bournemouth
BH9 1HR
United Kingdom

Tel: 44 (0) 1202 770740
Fax: 44 (0) 1202 770730

office@lasermet.com
www.lasermet.com

Specialists in Laser Safety
Registered in England: No. 2084778
VAT No. GB 522 0236 02