

label example, not to scale approx 5:1 ratio

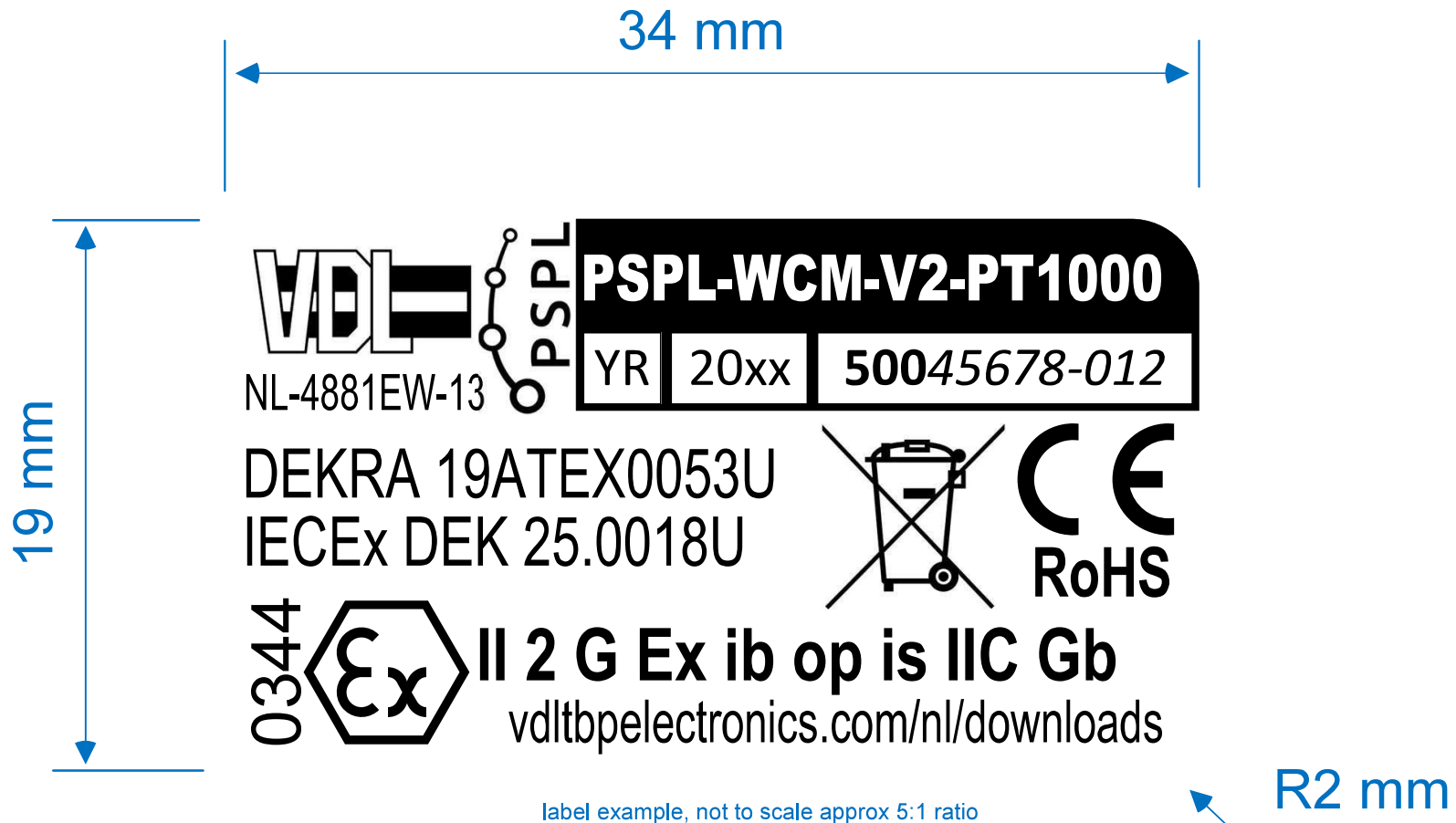
- Label material, ink and adhesive conform EN IEC 60079-0:2018 chapter 29.1 .. 29.16
- Label material: Lighthouse CPMSP01 or CM5032, 3M White Polyester
- Resin material: Lighthouse CPMSR40
- Serial number coding: YR **20xx** **50045678-012**
  - 20xx** = Year of Production counting from 2026 .. 2099
  - 500** = fixed Offset
  - 45678** = VDL Order/Batch number (unique)
  - 012** = serial number counting from 001 .. 999 maximum per Order/Batch number
- Applicable Gerber WCM-V2 versions: GBR4 & GBR6

PARTNER	DRAWING NR.	REVISION
VDL RENA Electronica B.V.	PSPL-WCM-V2-LIGHT	V3
PROJECT	PAGE	PAPER SIZE
WCM-V2 EX Certification labels	1 of 1	A4
COMMENT	AUTHOR	DATE
	Rick Wolleswinkel	29-5-2026



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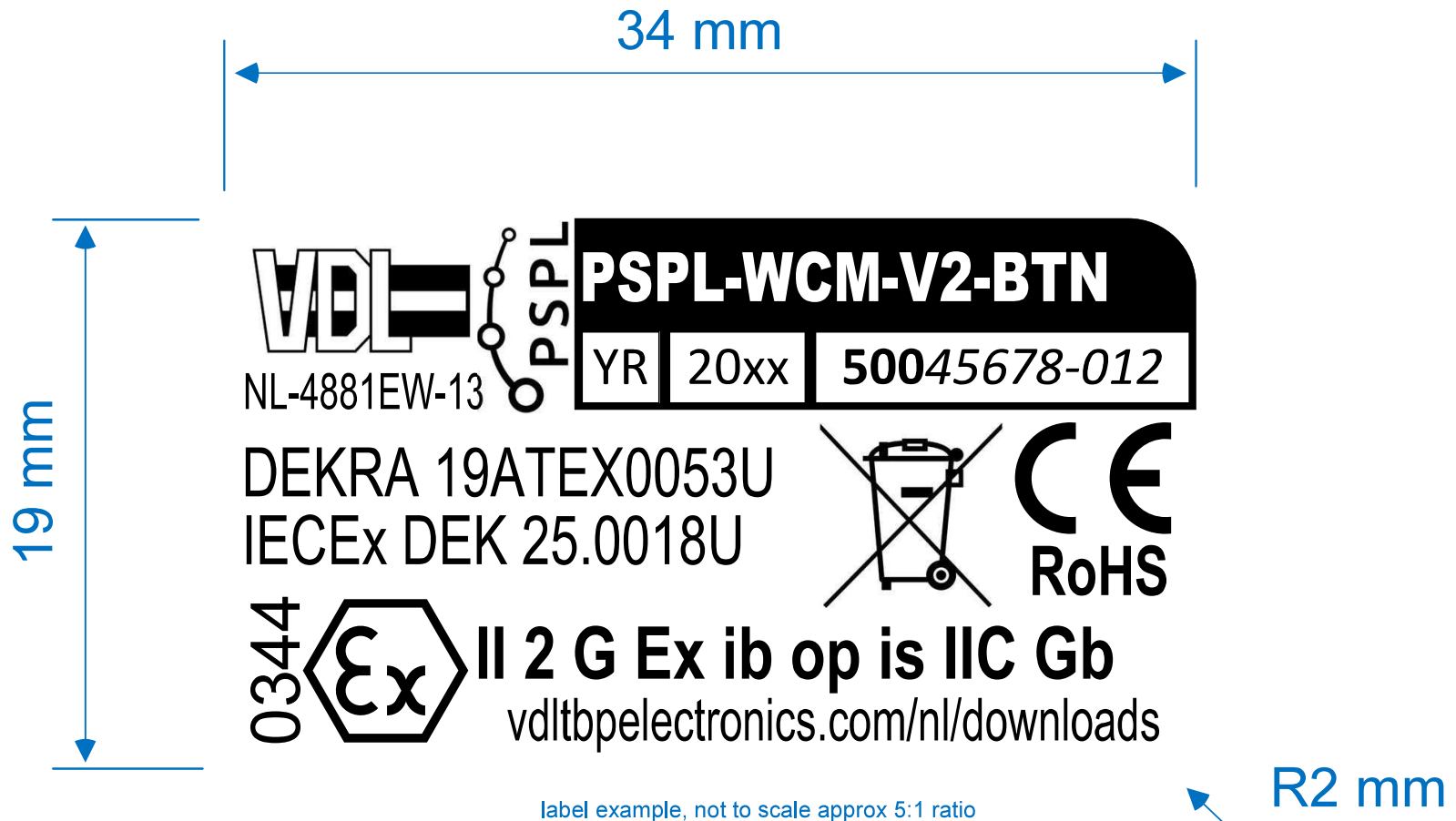
- Applicable Gerber WCM-V2 versions: GBR4 only. Discontinued from GBR6

PARTNER	DRAWING NR.	REVISION
VDL RENA Electronica B.V.	PSPL-WCM-V2-PT1000	V3
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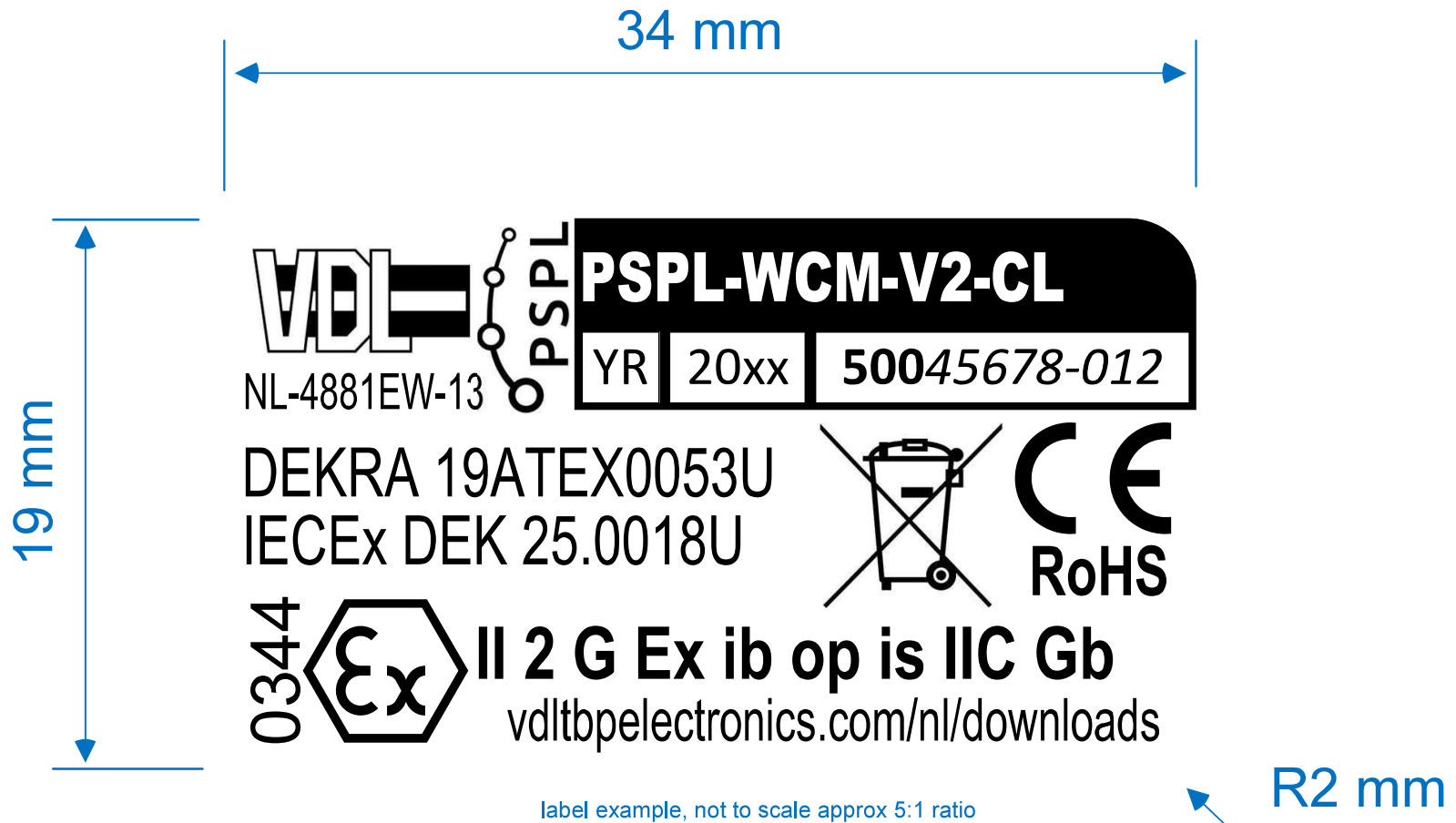
- Applicable Gerber WCM-V2 versions: GBR4 & GBR6

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VDL RENA Electronica B.V.	PSPL-WCM-V2-BTN	V3
PROJECT	PAGE	PAPER SIZE
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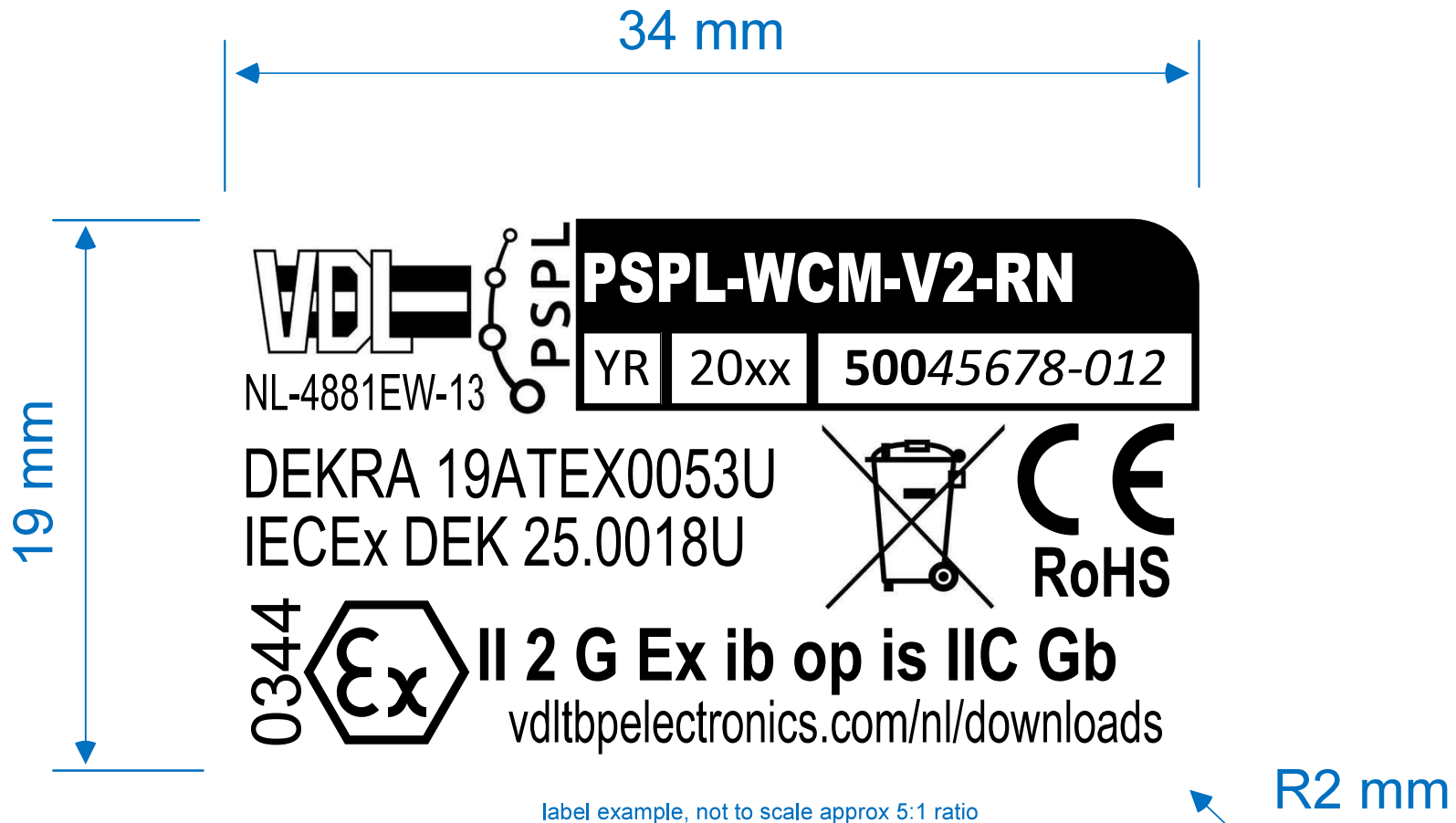


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  - 500 = fixed Offset
  - 45678 = VDL Order/Batch number (unique)
  - 012 = serial number counting from 001 .. 999 maximum per Order/Batch number

- Applicable Gerber WCM-V2 versions: GBR4 only. Discontinued from GBR6

PARTNER	DRAWING NR.	REVISION
VDL RENA Electronica B.V.	PSPL-WCM-V2-CL	V3
PROJECT	PAGE	PAPER SIZE
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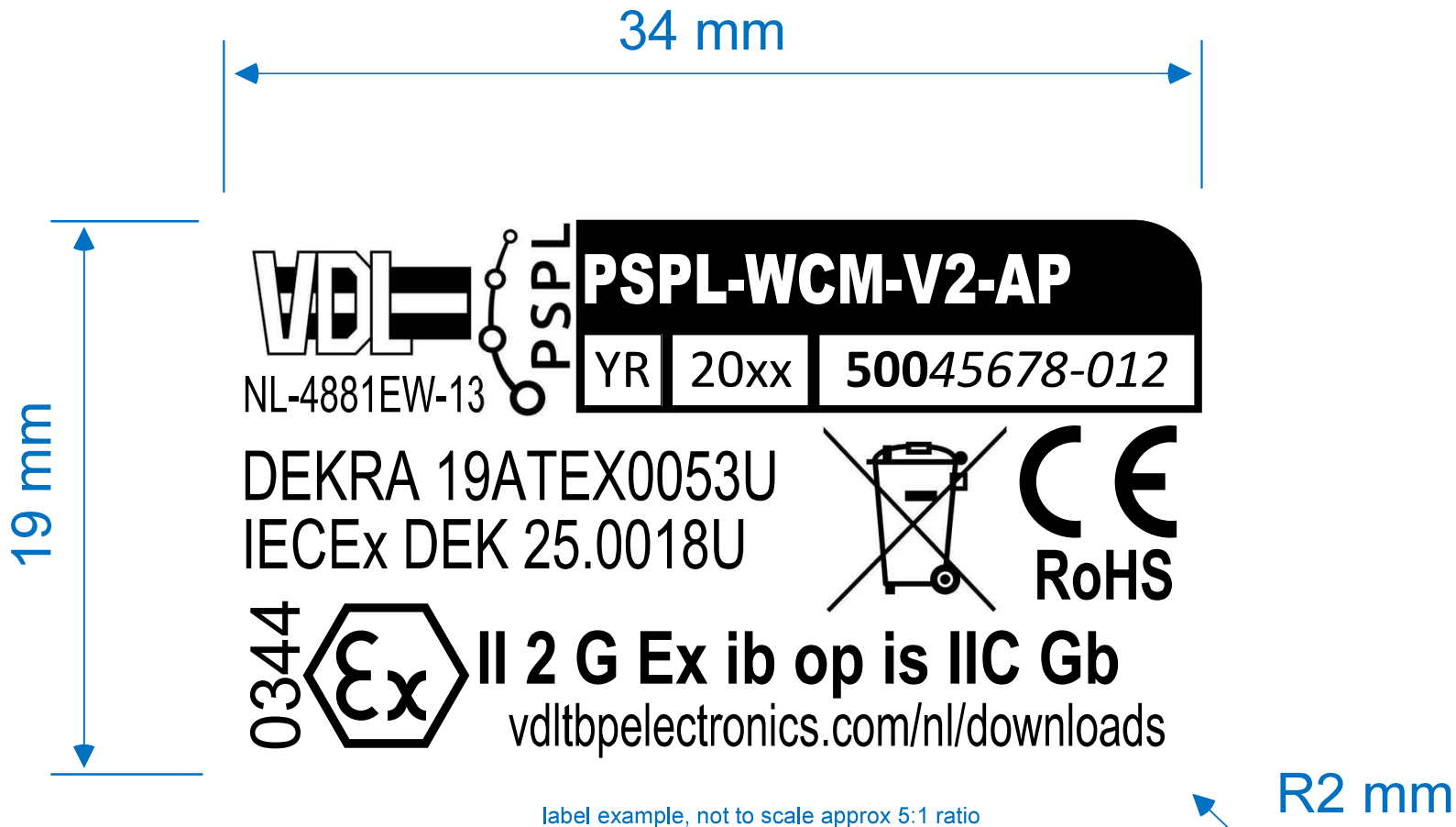


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- Resin material: Lighthouse CPMSR40
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- Applicable Gerber WCM-V2 versions: GBR4 only. Discontinued from GBR6

PARTNER	DRAWING NR.	REVISION
VDL RENA Electronica B.V.	PSPL-WCM-V2-RN	V3
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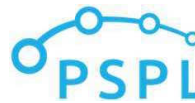
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- Applicable Gerber WCM-V2 versions: GBR4 & GBR6

PARTNER	DRAWING NR.	REVISION
VDL RENA Electronica B.V.	PSPL-WCM-V2-AP	V3
PROJECT	PAGE	PAPER SIZE
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## Description

The WCM-V2 (Wireless Control Module) integrates connected devices into a Wirepas- or Bluetooth™-enabled Mesh network. The PSPL-WCM-V2-LIGHT is used to integrate an LED light fixture into such a network.

## Applications

Due to their IECEx and ATEX certificates, the PSPL-WCM-V2-LIGHT devices are mostly used in light fixtures installed in harsh and explosive environments. The main fields of operation for this type of device are the oil and gas industry, chemical plants and industrial steelwork/foundry sites.



Figure 1: PSPL-WCM-V2-LIGHT

## Product type marking

Each WCM module is marked with a sticker as shown in Figure 2:

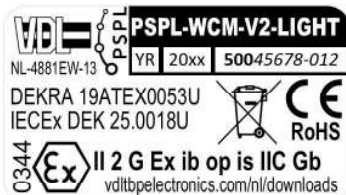


Figure 2: Product sticker WCM

This sticker shows the following information:

- Certification product type
- Identification numbers of the product
- Ex-marking information
- Production Year (20xx)
- Production batch & serial number (50045678-012).

## Mechanical installation

All WCM modules share the same mounting layout as seen in Figure 3:

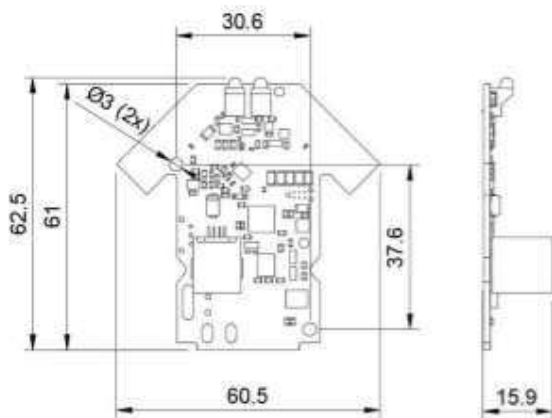


Figure 3: Overall dimensions and mounting points

Non-metallic M3 screws or non-metallic clip-on connectors should be used to secure the WCM on a non-metallic mounting plate. VDL-Rena can review all other mounting solutions upon request.

When mounting the WCM V2, please ensure a minimal clearance of 1.5mm to the nearest metal component.

## Electrical installation

The WCM-V2-LIGHT has an FCC 47 CFR Part 68 RJ-9 modular connector on board (P3) as seen in Figure 4:



Figure 4: PSPL-WCM-V2-LIGHT pinout

The pinout of the connector is as follows:

- 1 = GND
- 2 = RS-485-A;
- 3 = RS-485-B;
- 4 = Vin;

Please ensure that - in the final mounting position - there is no risk for mechanical stress on the wiring as well as on the connector.

## Atex & IECEx Entity parameters & Power supply

Connector P3 (RJ-9 socket):

**Ui= 7.14 V; li= 261 mA; Pi= 465 mW; Li= 0 µH; Ci= 7.0 µF.**

## Schedule of limitations

- Protecting enclosure required with an IP20 rating minimum according to IEC 60529;
- Ambient temperature range is -40 °C ... +75 °C;
- The maximum board temperature is 94 °C under fault conditions.
- Maximum component temperature is 147 °C, for components with a surface area < 1000 mm<sup>2</sup>;

## Initial start-up

To configure the WCM-V2-LIGHT, please power on (insert RJ-9 cable with correct pinout as shown above) within the range of a Bluetooth™ Mesh network. After power-up, follow the configuration steps in the network commissioning & configurator software tools.

## Defective products

If the WCM malfunctions, contact VDL-Rena for a replacement product. The WCM modules may not be repaired by any party other than those approved by VDL-Rena.

Further information: **DEKRA Certification B.V.**  
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## Description

The WCM-V2 (Wireless Control Module) integrates connected devices into a Wirepas- or Bluetooth™-enabled Mesh network.

The PSPL-WCM-V2-PT1000 is used to integrate a PT1000-type temperature-sensing probe into such a network.



Figure 1: PSPL-WCM-V2-PT1000

## Applications

Due to their ATEX and IECEx certifications, the WCM-V2-PT1000 devices are primarily used in harsh-environment solutions. The main fields of operation for this type of device are the oil and gas industry, the mining industry, and chemical plants.

## Product type marking

Each WCM module is marked with a sticker as shown in Figure 2:

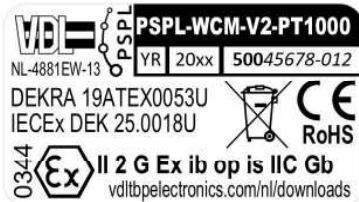


Figure 2: Product sticker WCM

The sticker includes the following information:

- Certification product type
- Identification numbers of the product
- Ex marking information
- Production Year (20xx)
- Production batch & serial number (50045678-012).

## Mechanical installation

All WCM modules share the same mounting layout as seen in Figure 3:

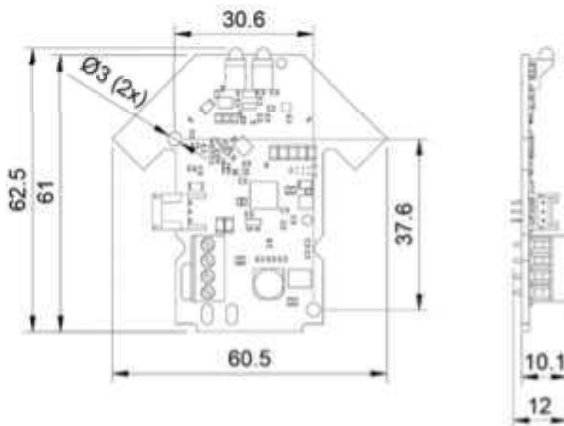


Figure 3: Overall dimensions and mounting points

When mounting the WCM V2, please ensure a minimal clearance of 1.5mm to the nearest metal component.

Use non-metallic M3 screws or clip-on connectors to secure the WCM on a non-metallic mounting plate. All other mounting solutions can be reviewed by VDL RENA upon request.

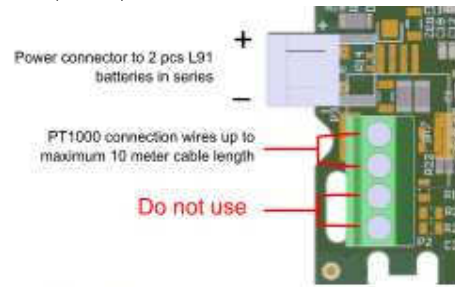


Figure 4: PSPL-WCM-V2-PT1000 pin-out

## Electrical installation

The PSPL-WCM-V2-PT1000 has two connectors on board. The white connector (P1) is used to connect to the battery power supply while the green connector (P2) is used to connect to the PT-1000 probe. Picture 4 shows the pinout for both connectors. Please ensure that – in the final mounting position – there is no stress on the wiring and/or connectors.

## Entity parameters

Connector P1 (white header):

$U_i = 3\text{ V}$  nominal;  $3.66\text{ V}$  max open-circuit voltage  $L_i = 0\ \mu\text{H}$ ;  $C_i = 333\ \mu\text{F}$ ;

Connector P2 (green screw connector):

$U_o = 3.66\text{ V}$ ;  $I_o = 10\text{ mA}$ ;  $P_o = 6\text{ mW}$ ;  $L_o = 20\ \mu\text{H}$ ;  $C_o = 24\ \mu\text{F}$ ;

## Schedule of limitations

- Protecting enclosure required with an IP20 rating minimum according to IEC 60529;
- Ambient temperature range is  $-40\text{ }^\circ\text{C}$  ...  $+75\text{ }^\circ\text{C}$ ;
- The maximum board temperature is  $94\text{ }^\circ\text{C}$  under fault conditions.
- Maximum component temperature is  $147\text{ }^\circ\text{C}$ , for components with a surface area  $< 1000\text{ mm}^2$ ;
- The green screw terminal shall only be connected to passive devices.

## Power supply

The WCM-V2-PT1000 is powered by two Energizer Ultimate Lithium Cells type L91 batteries. These are mounted in a 2-position AA battery keystone, which is to be securely fixed inside the housing. Infallible insulation for the power supply wiring should be in accordance with EN 60079-11, Table 5 (10V): The solid insulation between the plus conductor and other circuit parts shall be at least 0.5mm.

Please note that only the Energizer Ultimate Lithium Cells type L91 are allowed for the PSPL-WCM-V2-PT1000

## Initial start-up

To configure the button type. Please power on (insert power connector) within the range of a Mesh network. After power-up, follow the configuration steps in the network commissioning & configurator software tools.

## Further information

If any further information is required, please contact:

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W: [vdlbpelectronics.com/nl/downloads](http://vdlbpelectronics.com/nl/downloads)

# PSPL-WCM-V2-BTN installation instructions



## Description

The WCM-V2 (Wireless Control Module) integrates connected devices into a Wirepas- or Bluetooth™-enabled Mesh network. The PSPL-WCM-V2-BTN is used to integrate a button box into such a network.

## Applications

Due to their ATEX and IECEx certifications, the PSPL-WCM-V2-BTN devices are primarily used in harsh-environment solutions. The main fields of operation for this type of device are the oil and gas industry, the mining industry, and chemical plants.



Figure 1: WCM-V2-BTN

## Product type marking

Each WCM module is marked with a sticker as shown in Figure 2:

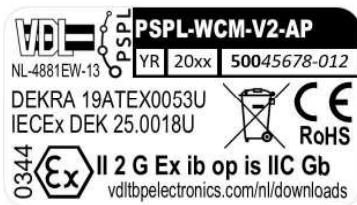


Figure 2: Product sticker WCM

This sticker shows the following information:

- Certification product type
- Identification numbers of the product
- Ex marking information
- Production Year (20xx)
- Production batch & serial number (50045678-012).

## Mechanical installation

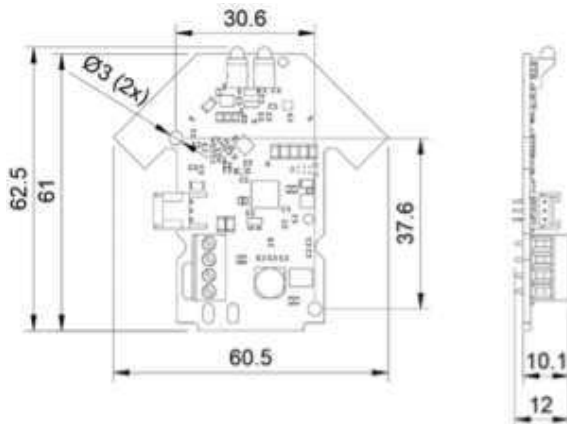


Figure 3: Overall dimensions and mounting points

When mounting the WCM V2, please ensure a minimal clearance of 1.5mm to the nearest metal component.

All WCM modules share the same mounting layout as seen in Figure 3:

Non-metallic M3 screws or non-metallic clip-on connectors should be used to secure the WCM on a non-metallic mounting plate. All other mounting solutions can be reviewed by VDL-Rena upon request.

## Electrical installation

The PSPL-WCM-V2-BTN has two connectors on the board. The white connector (P1) connects to the battery power supply, while the green connector (P2) connects to the button. Picture 4 shows the pinout for both connectors. Please ensure that – in the final mounting position – there is no mechanical stress on the wiring and/or connectors.

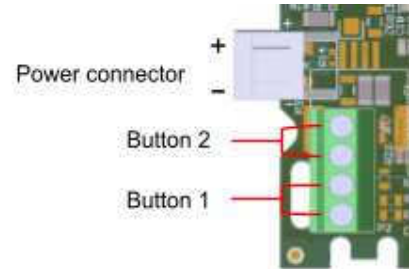


Figure 4: PSPL-WCM-BTN pin-out

## Entity parameters

Connector P1 (white header):

**Ui=3 V nominal; 3.66 V max open-circuit voltage; Li= 0 µH; Ci=333 µF;**

Connector P2: (green screw connector):

**Uo= 3.66 V; Io= 7.8 mA; Po= 4.8 mW; Lo= 10 µH; Co= 12 µF;**

## Schedule of limitations

- Protecting enclosure required with an IP20 rating min according to IEC 60529;
- Ambient temperature range is -40 °C ... +75 °C;
- The maximum board temperature is 94 °C under fault conditions.
- Maximum component temperature is 147 °C, for components with a surface area < 1000 mm<sup>2</sup>;
- The screw terminal shall only be connected to passive devices.

## Power supply

The PSPL-WCM-V2-BTN is powered by two Energizer Ultimate Lithium Cells type L91 batteries. These are mounted in a 2-position AA battery keystone, which is to be securely fixed inside the housing. Infalible insulation for the power supply wiring should be in accordance with EN 60079-11, Table 5 (10V): The solid insulation between the plus conductor and other circuit parts shall be at least 0.5mm.

Please note that only the Energizer Ultimate Lithium Cells type L91 are allowed for the WCM-V2-BTN

## Initial start-up

To configure the button type. Please power on (insert the power connector) within the range of a Bluetooth™ Mesh network. After power-up, follow the configuration steps in the network commissioning & configurator software tools.

## Defective products

If the WCM malfunctions, contact VDL-Rena for a replacement product. The WCM module may not be repaired by any party other than those approved by VDL-Rena.

## Further information

If any further information is required, please contact:

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# PSPL-WCM-V2-CL installation instructions



## Description

The WCM-V2 (Wireless Control Module) integrates connected devices into a Wirepas- or Bluetooth™-enabled Mesh network. The PSPL-WCM-V2-CL integrates a 4-20 mA process control current loop into such a network.

## Applications

Due to their ATEX and IECEx certifications, the WCM-V2-CL devices are primarily used in harsh-environment solutions. The main fields of operation for this type of device are the oil and gas industry, the mining industry and chemical plants.



## Product type marking

Each WCM module is marked with a sticker as shown in Figure 2:

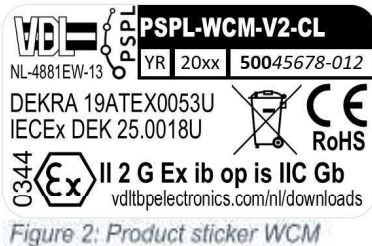


Figure 2: Product sticker WCM

The sticker includes the following information:

- Certification product type
- Identification numbers of the product
- Ex-marking information;
- Production Year (20xx)
- Production batch & serial number (50045678-012).

## Mechanical installation

All WCM modules share the same mounting layout as seen in Figure 3:

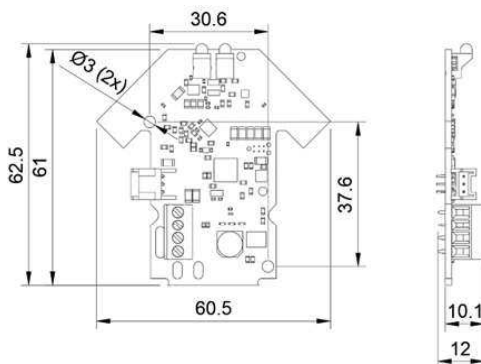


Figure 3: Overall dimensions and mounting points

Non-metallic M3 screws or clip-on connectors should be used to secure the WCM on a non-metallic mounting plate. VDL-Rena can review all other mounting solutions upon request.

## Electrical installation

The WCM-V2-CL has two connectors on board. The white connector (P1) is used to connect to the battery power supply, while the green connector

(P2) is used to connect to the 2 wires of a 4-20 mA looped circuit. Picture 4 shows the pinout for both connectors. Please ensure that - in the final mounting position - there is no stress on the wiring and/or connectors.

When mounting the WCM V2, please ensure a minimal clearance of 1.5mm to the nearest metal component.

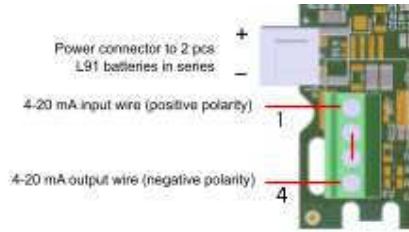


Figure 4: WCM-V2-CL pin-out

## Entity parameters

Connector P1 (white connector):

**Ui=3 V nominal; 3.66 V max open-circuit voltage Li= 0 µH; Ci=333 µF;**

Connector P2 (green screw connector):

**Uo= 3.66 V; Io= 3,9 mA; Po= 2.4 mW; Lo= 20 µH; Co= 24 µF;**

**Vi = 30 V; li= 25 mA; Li= 0 µH; Ci= 0 µF.**

## Schedule of limitations

1. Protecting enclosure required with IP20 rating minimum according to IEC 60529;
2. Ambient temperature range is -40 °C ... +75 °C;
3. The maximum board temperature is 94 °C under fault conditions.
4. The maximum component temperature is 147 °C for components with a surface area < 1000 mm<sup>2</sup>.

## Power supply

The WCM-V2-CL are powered by two Energizer Ultimate Lithium Cells type L91 batteries. These are mounted in a 2-position AA battery keystone to be securely fixed inside the housing. Infallible insulation for the power supply wiring should be in accordance with EN 60079-11, Table 5 (10V): The solid insulation between the plus conductor and other circuit parts shall be at least 0.5mm.

Please note that only the Energizer Ultimate Lithium Cells type L91 are allowed for the WCM-V2-CL

## Initial start-up

To configure the button type, please power on (insert power connector) within the range of a Bluetooth™ Mesh network. After powering up, follow the configuration steps in the network commissioning and configurator software tools.

## Defective products

If the WCM malfunctions, contact VDL-Rena for a replacement product. The WCM modules may not be repaired by any party other than those approved by VDL-Rena.

## Further information

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# PSPL-WCM-V2-RN installation instructions



## Description

The WCM-V2 (Wireless Control Module) integrates connected devices into a Wirepas- or Bluetooth™-enabled Mesh network. The PSPL-WCM-V2-RN is used to integrate a routing node or DALI converter into such a network.

## Applications

Due to their ATEX and IECEx certifications, the PSPL-WCM-V2-RN devices are primarily used in harsh-environment solutions. The main fields of operation for this type of device are the oil and gas industry, the mining industry, and chemical plants.



Figure 1: PSPL-WCM-V2-RN

## Product type marking

Each WCM module is marked with a sticker as shown in Figure 2:

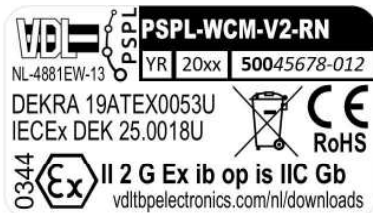


Figure 2: Product sticker WCM

This sticker shows the following information:

- Certification product type
- Identification numbers of the product
- Ex marking information
- Production Year (20xx)
- Production batch & serial number (50045678-012).

## Mechanical installation

All WCM modules share the same mounting layout as seen in Figure 3:

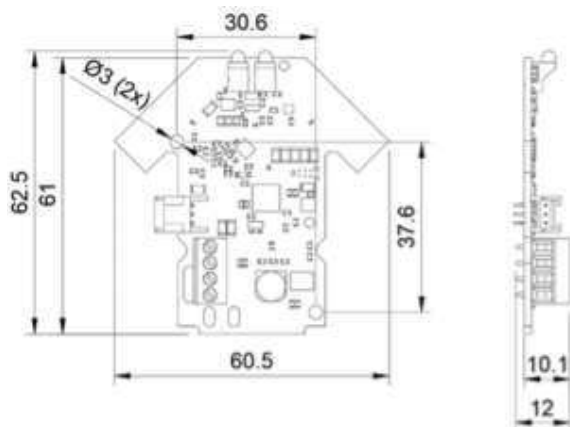


Figure 3: Overall dimensions and mounting points

Non-metallic M3 screws or non-metallic clip-on connectors should be used to secure the WCM on a non-metallic mounting plate. All other mounting solutions can be reviewed by VDL-Rena upon request.

When mounting the WCM V2, please ensure a minimal clearance of 1.5mm to the nearest metal component.

## Electrical installation

The PSPL-WCM-V2-RN has a green Phoenix Contact connector (P2) on board as seen in picture 4.

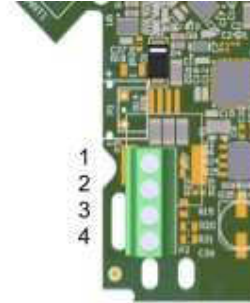


Figure 4: WCM-RN pin-out

The pinout of the connector P2 is as follows:

- 1= RS-485-A;
- 2= Vin;
- 3= RS-485-B;
- 4= GND

Please ensure that - in the final mounting position - there is no mechanical stress on the wiring and/or connector.

## Schedule of limitations

- Protecting enclosure required with an IP20 rating minimum according to IEC 60529;
- Ambient temperature range is -40 °C ... +75 °C;
- The maximum board temperature is 94 °C under fault conditions.
- Maximum component temperature is 147 °C, for components with a surface area < 1000 mm<sup>2</sup>.

## Entity parameters & Power supply

Connector P2 (screw terminals):

**Ui= 7.14 V; Ii= 261 mA; Pi= 465 mW; Li= 0 µH; Ci= 7 µF.**

## Initial start-up

To configure the PSPL-WCM-V2-RN, please power on within the range of a Bluetooth™ Mesh network. After power-up, follow the configuration steps in the network commissioning & configurator software tools.

## Defective products

If the WCM malfunctions, contact VDL-Rena for a replacement product. The WCM modules may not be repaired by any party other than those approved by VDL-Rena.

Further information: **DEKRA Certification B.V.**  
Meander 1051, 6825 MJ Arnhem  
P.O. Box 5185, 6802 ED Arnhem  
The Netherlands

If any further information is required, please contact:

VDL RENA Electronics B.V. 18 96 83000 • F +31 88 96 83100  
www.dekra-certification.com

Industrieweg 13 4881 EW Zundert, The Netherlands

T: +31(0)76 5995995

E: [Sales@rena.nl](mailto:Sales@rena.nl)

W: [vdlbpelectronics.com/nl/downloads](http://vdlbpelectronics.com/nl/downloads)

## Description

The WCM-V2 (Wireless Control Module) integrates connected devices into a Wirepas- or Bluetooth™-enabled Mesh network. The PSPL-WCM-V2-AP is used to integrate a gateway into such a network.

## Applications

Due to their ATEX and IECEx certifications, the PSPL-WCM-V2-AP devices are primarily used in harsh-environment solutions. The main fields of operation for this type of device are the oil and gas industry, the mining industry, and chemical plants.



Figure 1: WCM-V2-AP

## Product type marking

Each WCM module is marked with a sticker as shown in Figure 2:

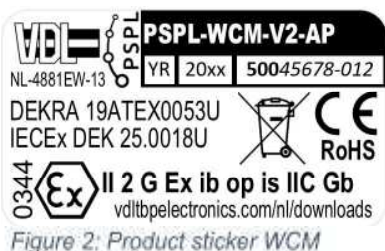


Figure 2: Product sticker WCM

This sticker shows the following information:

- Certification product type
- Identification numbers of the product
- Ex marking information
- Production Year (20xx)
- Production batch & serial number (50045678-012).

## Mechanical installation

All WCM modules share the same mounting layout as seen in Figure 3:

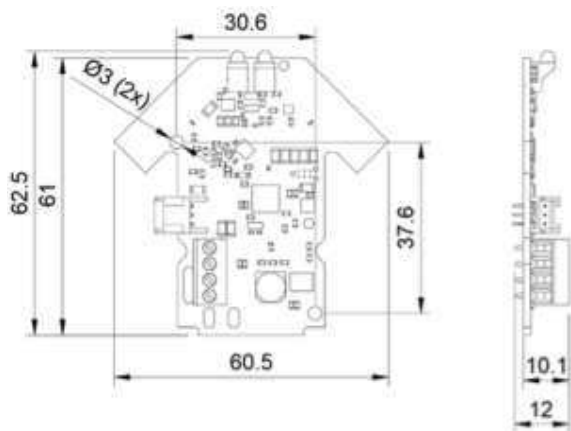


Figure 3: Overall dimensions and mounting points

Non-metallic M3 screws or non-metallic clip-on connectors should be used to secure the WCM on a non-metallic mounting plate. VDL-Rena can review all other mounting solutions upon request.

When mounting the WCM V2, please ensure a minimal clearance of 1.5mm to the nearest metal component.

## Electrical installation

The PSPL-WCM-V2-AP has a green Phoenix Contact connector (P2) on board, as seen in picture 4.

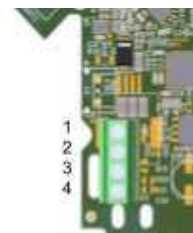


Figure 4: WCM-AP pin-out

The pinout of connector P2 is as follows:

- 1 = RS-485-A;
- 2 = Vin;
- 3 = RS-485-B;
- 4 = GND

Please ensure that - in the final mounting position - there is no mechanical stress on the wiring and/or connector.

## Entity parameters & Power supply

Connector P2 (screw terminals):

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## Initial start-up

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## Further information

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