

CAF 1S / CAF 2S

Socket-Type Glass Door Photocell



KONTAL

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Before you start using your device, be sure to read the user manual. Carefully follow the steps described in the installation, electrical connection, and initial start-up sections. After this point, the product owner/user must keep this user manual in a known and accessible place for the entire service life of the product.

- Keep the product in a dry environment. Otherwise, the product may malfunction.
- For products powered by a battery, the battery is not covered under warranty. Likewise, faults caused by the discharge or leakage of the battery in products that have reached the end of their shelf life are not covered under warranty.
- All service and repair work may only be carried out by Kontal Elektronik technical service. The product must not be tampered with by any other party.
- The operating voltage of each product is stated on its label. Do not supply the product from any source other than this voltage value.



- ✓ Using the product in a manner that does not comply with the items stated above may cause fire, serious personal injury, or damage to the product or the structure it is installed in. Kontal Elektronik San. ve Tic. Ltd. Şti. accepts no responsibility for such situations caused by the user.
- ✓ This symbol will be used for important points in the following sections.



- ✓ Do not touch the power terminals of the product with bare hands.
- This symbol will be used for warnings related to voltage in the following sections.



- This symbol on the label indicates that the product's supply voltage is DC.



- This symbol on the label indicates that the product has reinforced insulation.



- This symbol on the product or its packaging indicates that this product must not be treated as ordinary household waste. Instead, the product must be handed over to the collection points designated for the recycling of electronic equipment. Improper disposal of the product may lead to negative consequences for the environment and human health.



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- Make sure the system is grounded for the product to operate properly.

1. DESCRIPTION

CAF 1S and CAF 2S are safety photocell solutions developed to ensure passage safety in automatic sliding glass door systems, and can be mounted directly onto door profiles. They offer two different model options to meet the safety needs of store, market, and building entrances:

- **CAF 1S (Single Channel):** Provides standard passage safety with a single pair of receiver/transmitter sensor eyes. Ideal for areas where single-point detection is sufficient.
- **CAF 2S (Dual Channel):** Offers dual-directional/two-different-height detection with two pairs of receiver/transmitter sensor eyes. Provides maximum safety by creating a wider safety zone in the passage area.

1.1 Box Contents

1.1.1 CAF 1S Box Contents

1x CAF1S – Single Channel Socket-Type Glass Door Photocell	1x CAF Socket-Type Transmitter Eye 1x CAF Socket-Type Receiver Eye
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1.1.2 CAF 2S Box Contents

1x CAF2S – Single Channel Socket-Type Glass Door Photocell	2x CAF Socket-Type Transmitter Eye 2x CAF Socket-Type Receiver Eye
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**For custom orders, box contents may vary depending on the project or customer request.*

2. TECHNICAL SPECIFICATIONS

Model	CAF1S	CAF2S
Product Code	K051-01	K052-01
Operating Voltage	15-40V DC	15-40V DC
Operating Current	15mA @ 24V DC	15mA @ 24V DC
Operating Distance(Max.)	10m	10m
Operating Technology	Infrared	Infrared
Operating Temperature	-20 °C +55 °C	-20 °C +55 °C
Number of Eyes	1 Receiver & 1 Transmitter Eye	2 Receiver & 2 Transmitter Eyes
Eye Cable Length	6m	6m
Number of Contacts / Contact Type	1 / Dry Contact (NO / NC)	1 / Dry Contact (NO / NC)
Contact Capacity	30V DC 1A / 125V AC 0.3A (Max.)	30V DC 1A / 125V AC 0.3A (Max.)
Weight	296gr	487gr
Dimensions (Width x Height x Depth)	63 x 104 x 26.5mm	63 x 104 x 26.5mm

3. CAF - USER ADJUSTMENT COMPONENTS

POT 1 : With this component, you can adjust the operating distance of the product.

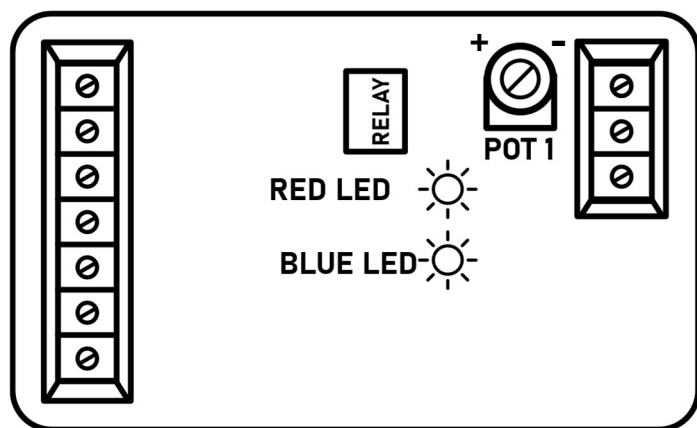
POT 2(Only for CAF 2S model) : With this component, you can adjust the operating distance of the 2 channels.

JMP1(Only for CAF 2S model) : With this component, you can determine the condition under which the product will give a contact output.

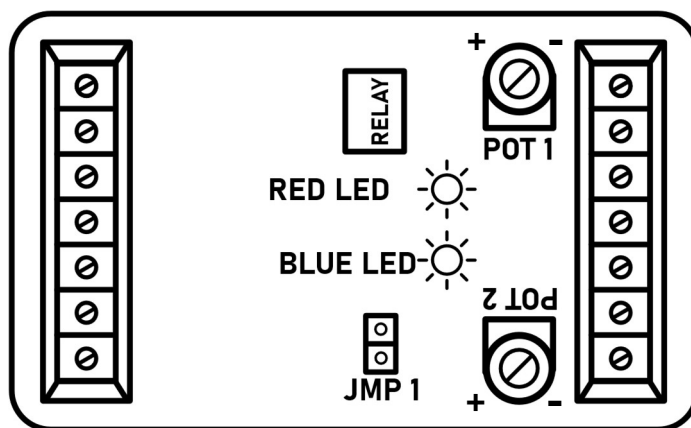
RED LED : With this component, you can check the product's supply voltage.

BLUE LED : With this component, you can observe the product's contact status.

4. CAF – CONTROL BOARD



CAF1S Control Board



CAF 2S Control Board

4.1 CAF – Operating Distance Adjustment

On CAF boards, you can adjust the operating distance of the eyes using the POT of the relevant channel;

CAF 1S Operating Distance Adjustment : When POT 1 is turned toward the “+” direction, the operating distance increases; when turned toward the “–” direction, the operating distance decreases. You can use the product at a maximum distance of 10m.

CAF 2S Operating Distance Adjustment :

To adjust the operating distance of CAF 2S channel 1, when POT 1 is turned toward the “+” direction, the operating distance increases; when turned toward the “–” direction, the operating distance decreases. You can use the product at a maximum distance of 10m.

To adjust the operating distance of CAF 2S channel 2, when POT 2 is turned toward the “+” direction, the operating distance increases; when turned toward the “–” direction, the operating distance decreases. You can use the product at a maximum distance of 10m.

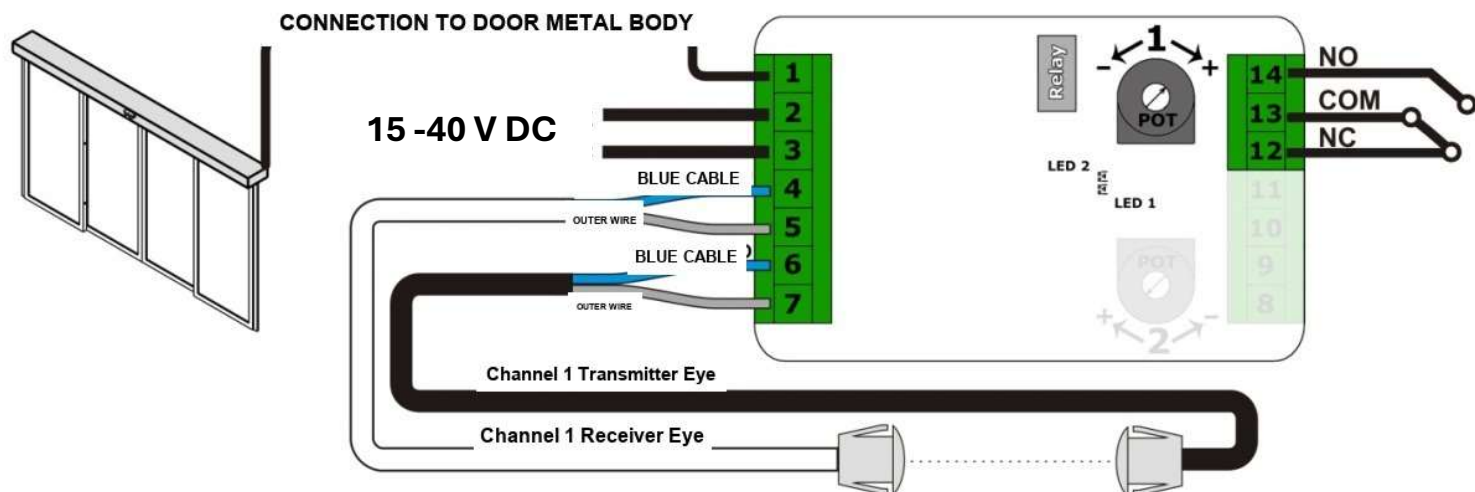
4.2 CAF – CAF 2S Jumper Function

JMP1 ACTIVE	JMP1 INACTIVE
The relay gives an output when the signal of either of the two channels is interrupted (when an obstacle enters between the eyes of at least one channel).	The relay gives an output only when the signals of both channels are interrupted at the same time (when an obstacle enters between the eyes of both channels simultaneously). Blocking only one channel does not trigger the relay.

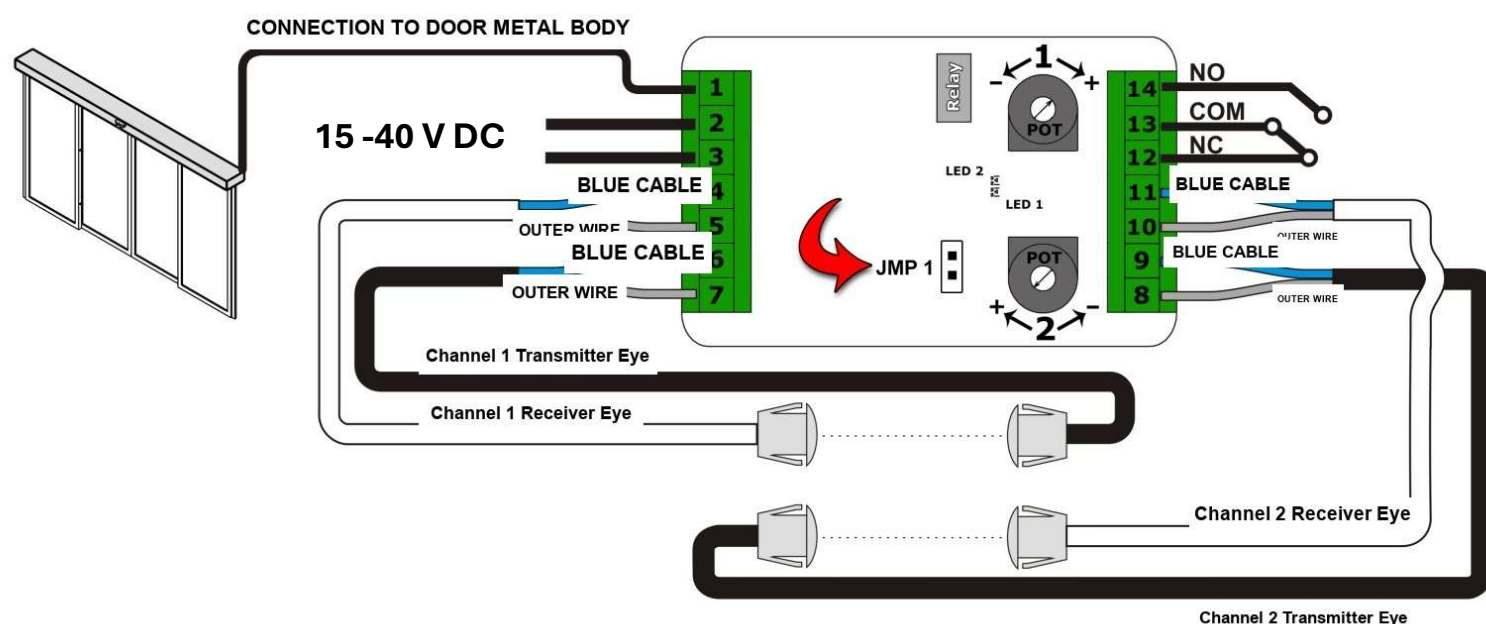
4.3 CAF – LED STATUSES

LED	ON	OFF
RED LED	This is the POWER LED. The product is receiving power	The product is not receiving power. The product is not operating.
BLUE LED	This is the CONTACT LED. The product is not giving a relay output, meaning the eyes can see each other.	The product is giving a contact output. There is an obstacle between the eyes

5. CAF – WIRING DIAGRAM



CAF1S Wiring Diagram



CAF2S Wiring Diagram



Pay attention to the “+” and “-” polarities when making the product's power connections!



Do not supply the product with power outside the specified operating voltage. Otherwise, the device may be damaged!



For the device to operate correctly and stably, it is recommended to use a power supply with an output power of at least 0.5W on the supply line.

6.CAF – MOUNTING

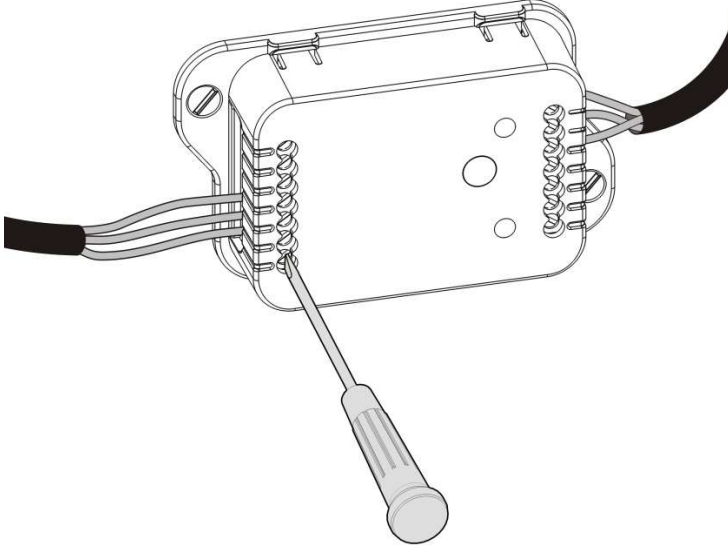


Figure 6.1 CAF making cable connetions

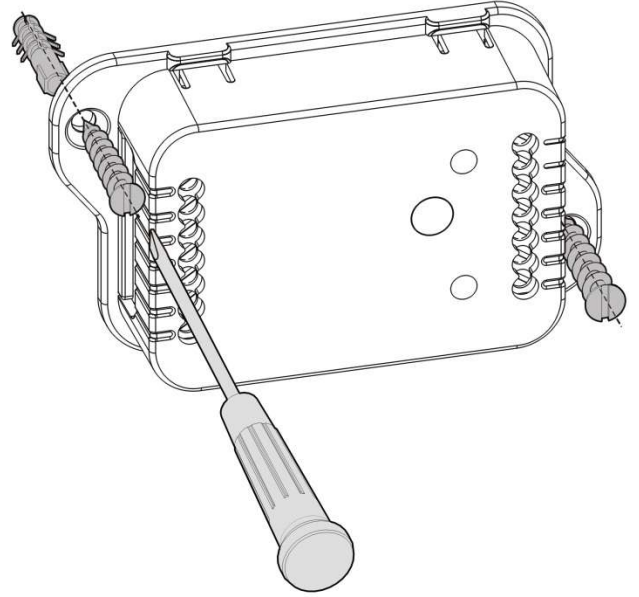


Figure 6.2 CAF mounting the flat surface

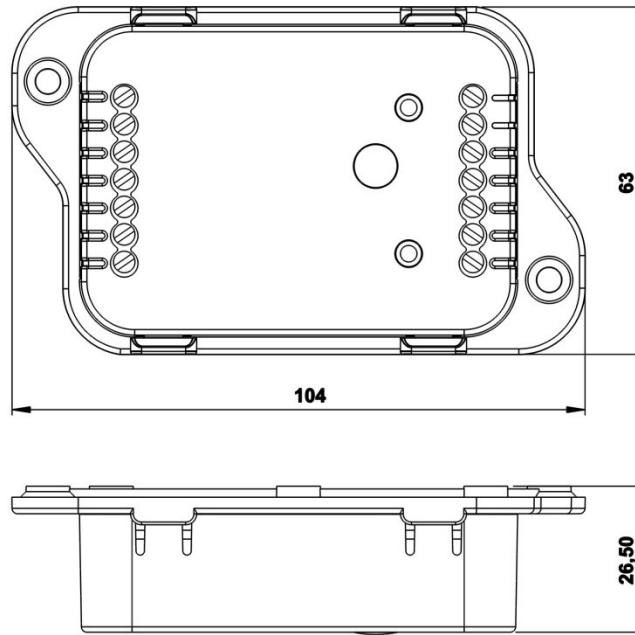


Figure 6.3 CAF Dimensions unit mm

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