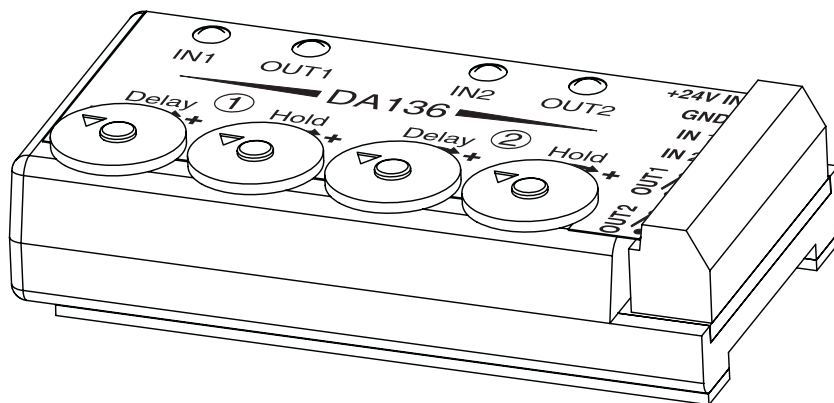


ABLOY® DA136

– *Delay unit*



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REVISION

Following pages have been revised

Page	Revision
6,7,8,9,10	DA361 codes updated to DA461 codes

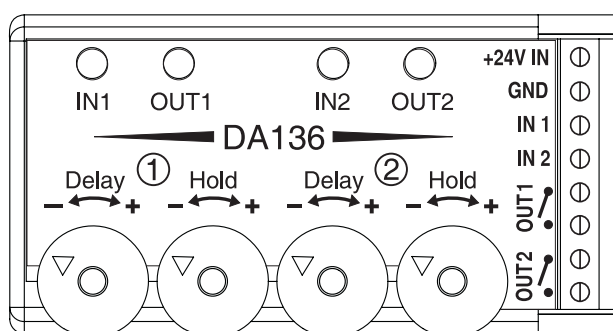
As at 21.8.2008

GENERAL

Delay unit DA136 can be used to connect swing door operators in different operations. With delay unit is possible to do following operations: delayed opening, rebated doors, stepwise opening and two pairs of rebated doors in stepwise opening.

Delay unit DA136 can be used with ABLOY® swing door operators DA300 and DA461.

In delay unit DA136, there are two inputs and two outputs. For adjustment of delay time and hold time there are potentiometers. Outputs are potential free with closing contact (NO). The impulse device that is connected to input 1, controls output 1. The impulse device, which is connected to input 2, controls outputs 1 and 2.



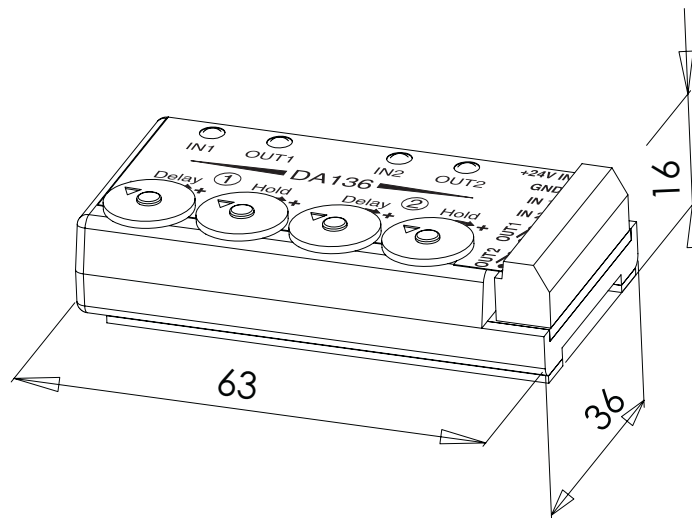
The delay can be adjusted with potentiometer Delay1 and Delay2. The potentiometer adjustment area 0...50 % corresponds to 0 - 5 second delay. The adjustment area 50% - 100% corresponds to 5 - 30 second delay.

Hold time can be adjusted by using potentiometer Hold1 and Hold2. The potentiometer adjustment area 0...50 % corresponds to 0 - 5 second hold time. The potentiometer adjustment area 50% - 100% corresponds to 5 - 60 second hold time.

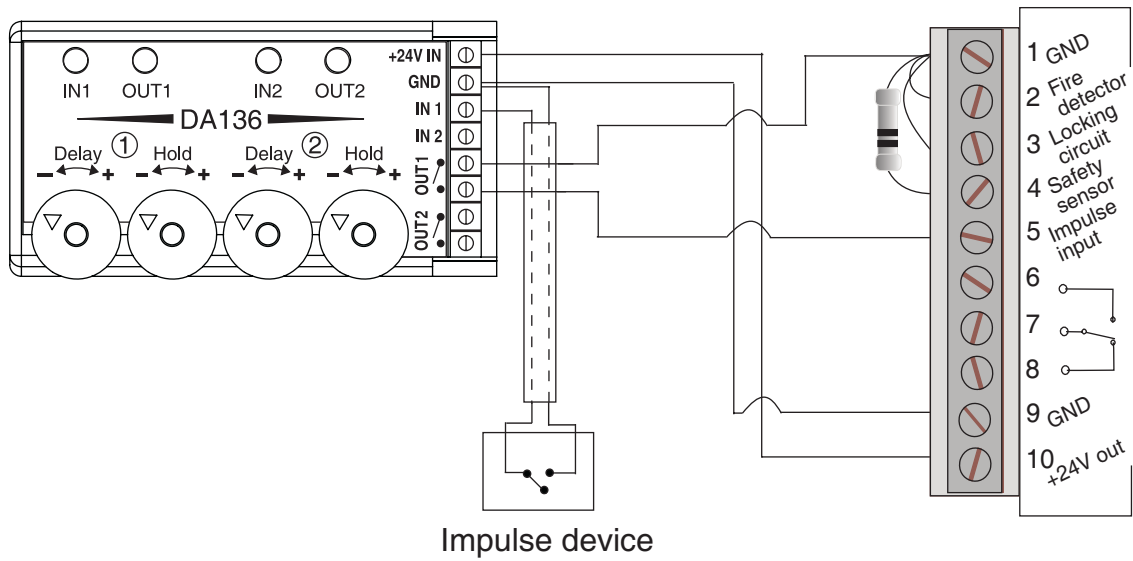
When inputs are active, led IN1 and IN2 are lit. When outputs are active, led OUT1 and OUT2 are lit.

TECHNICAL DATA

Operating temperature:	-15 °C - +50°C
Cables:	max. 30 m
Supply voltage:	24 VDC \pm 15%
Current:	15,0 mA (idle) 50,0 mA (maximum)
Enclosure class:	IP20
Output relay:	
- Delay time	0 - 30 s (nonlinear)
- Hold time	0 - 60 s (nonlinear)
- Max contact voltage	60 VDC/ 125 VAC 1 A 1,0 A @ 24VDC resistive load 0,3 A @ 125 VAC inductive load

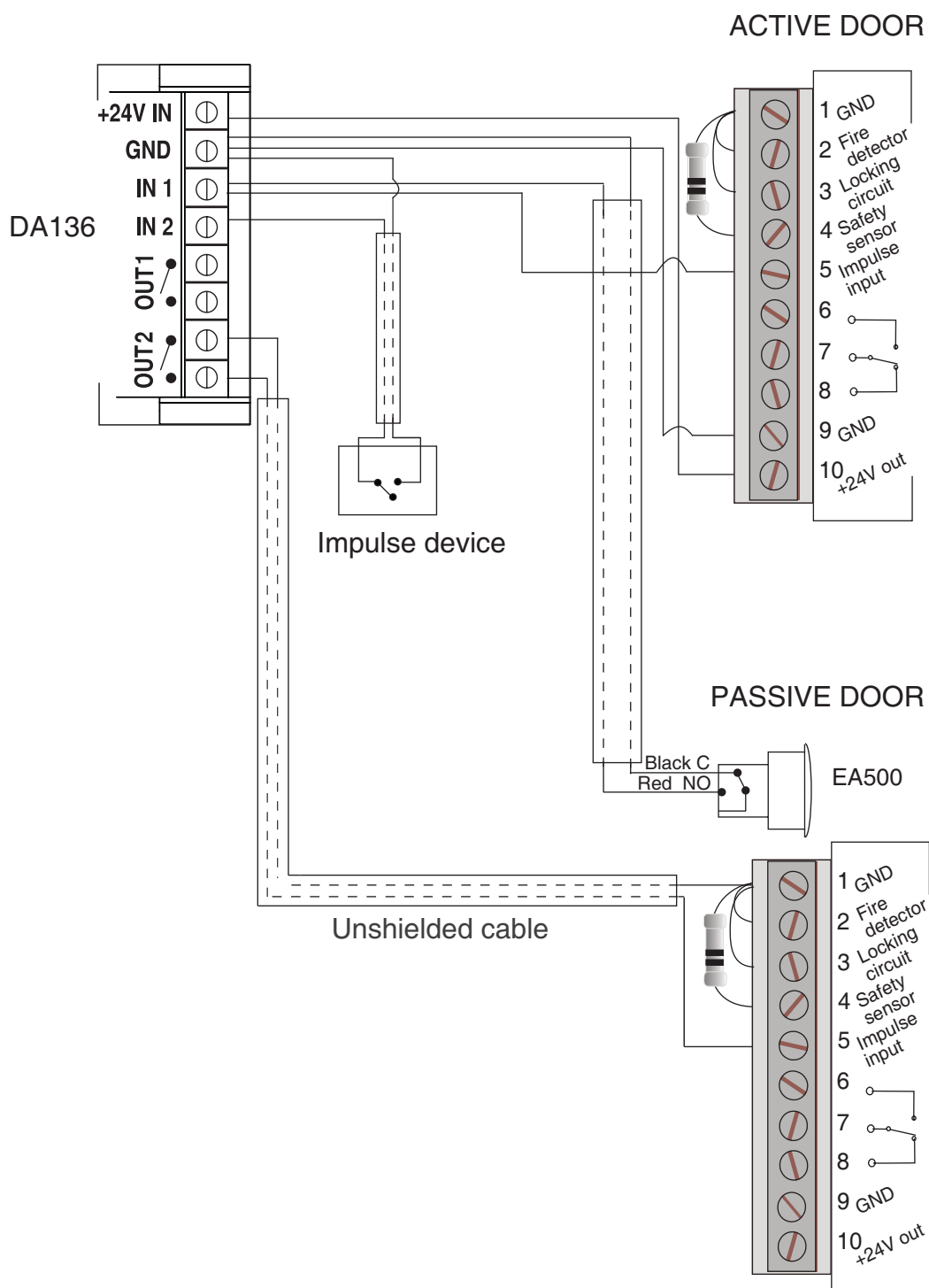


DA461 DELAYED OPENING



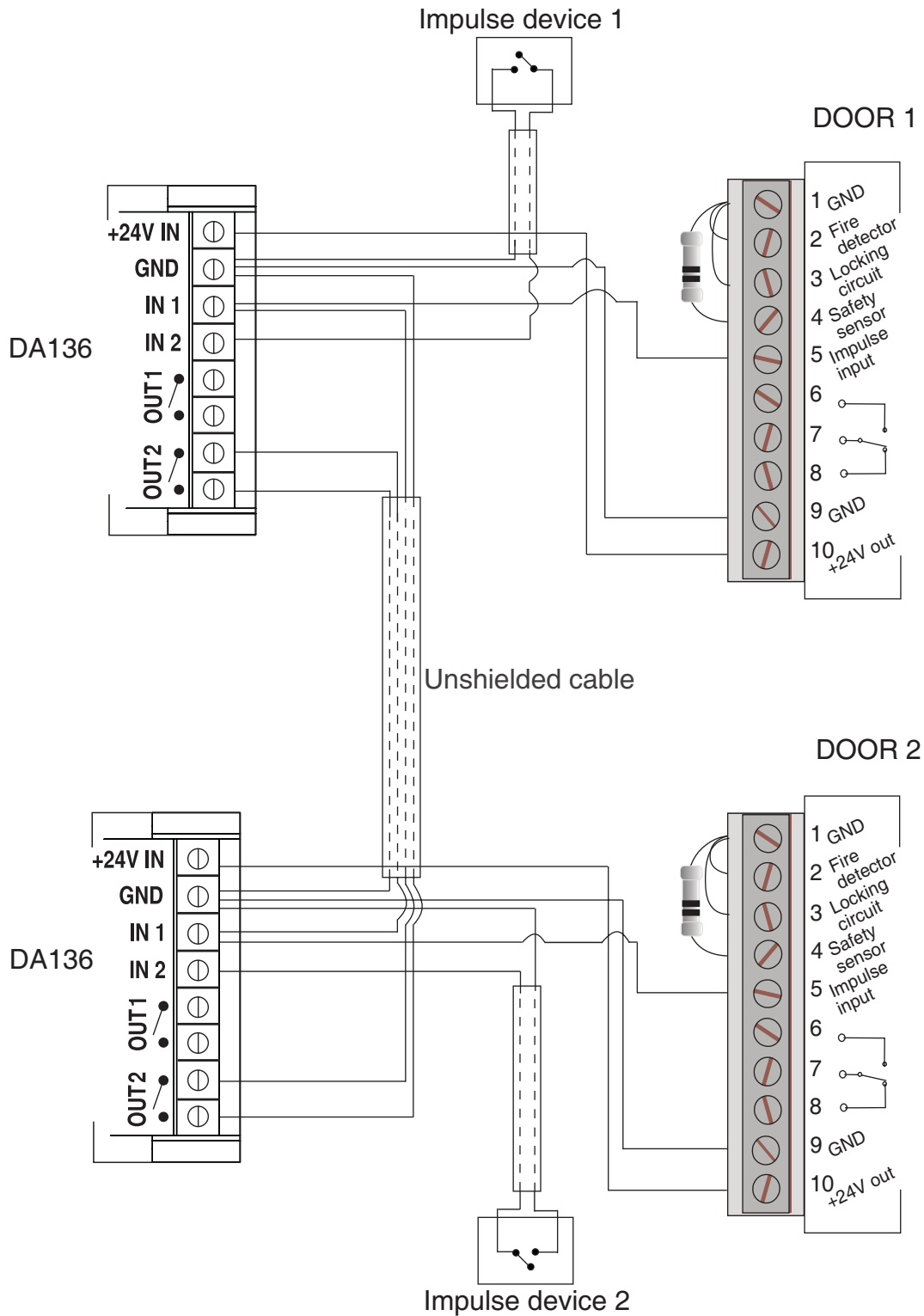
Adjust the delay for opening from potentiometer Delay 1 and hold time using potentiometer Hold 1. Suitable hold time is 1 – 2 second.

DA461 REBATED DOORS



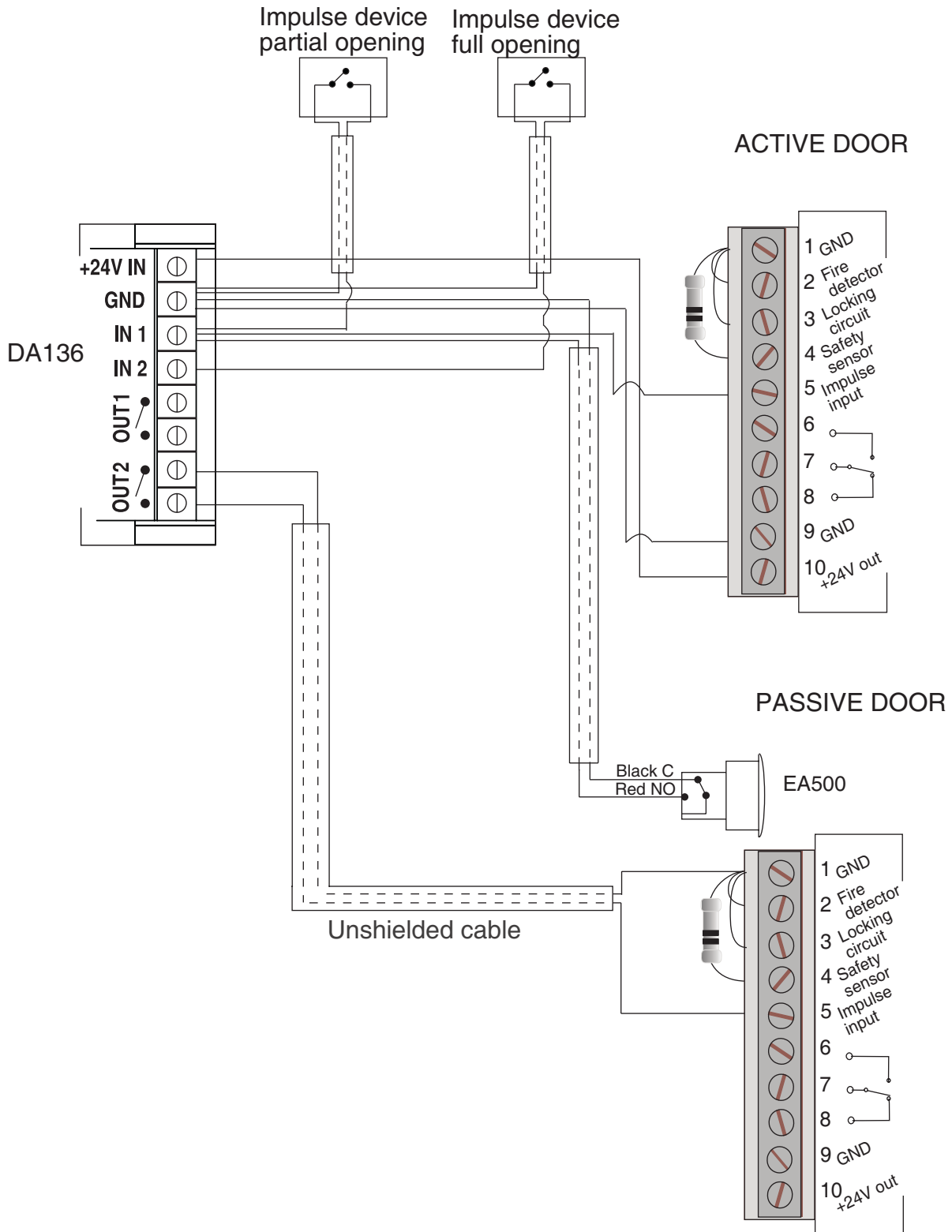
Use potentiometer Delay 2 for adjusting the opening delay for passive door and hold time with potentiometer Hold 2. Proper hold time is 1 - 2 second. If passive door opens first, the door contact, which is in passive door, gives opening impulse to the active door. If there is a mechanical coordinator, there is no need for door contact. In picture is door contact indication, when door is closed.

DA461 STEPWISE OPENING



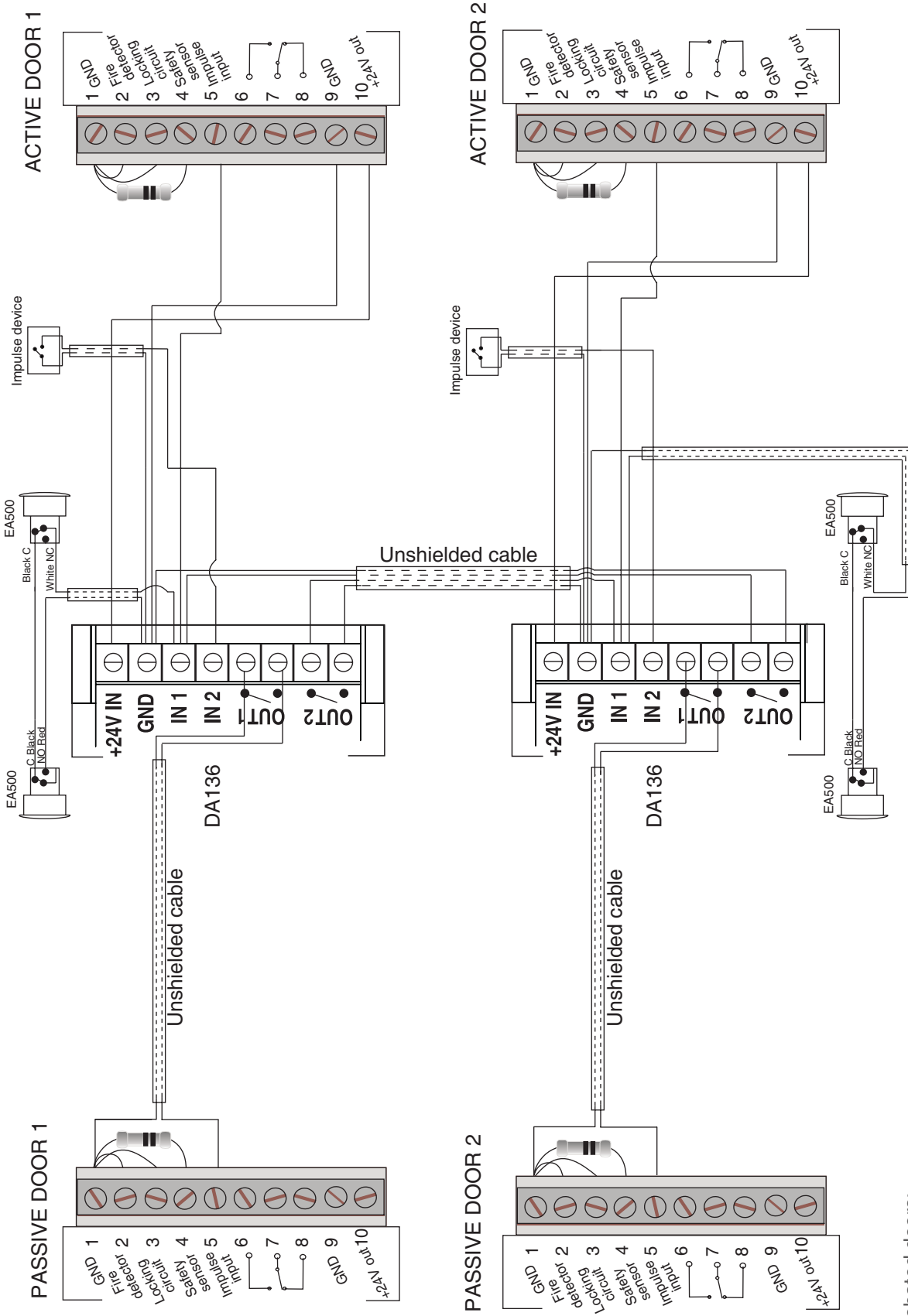
From impulse device 1 opens first door 1 and after adjusted delay opens door 2. Adjust opening delays from DA136 potentiometer Delay 2. Adjust hold time from potentiometer Hold 2. Proper hold time for output is 1-2 second. Use unidirectional radars or mechanical impulse devices.

DA461 FULL OPENING - PARTIAL OPENING



Use potentiometer Delay 2 for adjusting opening delay for passive door and potentiometer Hold 2 for adjusting hold time. Proper hold time is 1 – 2 second. Active door starts closing after passive door has closed and active doors open time has finished. If opening sequence is incorrect e.g. passive door opens first, the door contact will give opening impulse to active door. If mechanical coordinator is installed, there is no need for door contact.

DA461 STEPWISE OPENING FOR REBATED DOORS



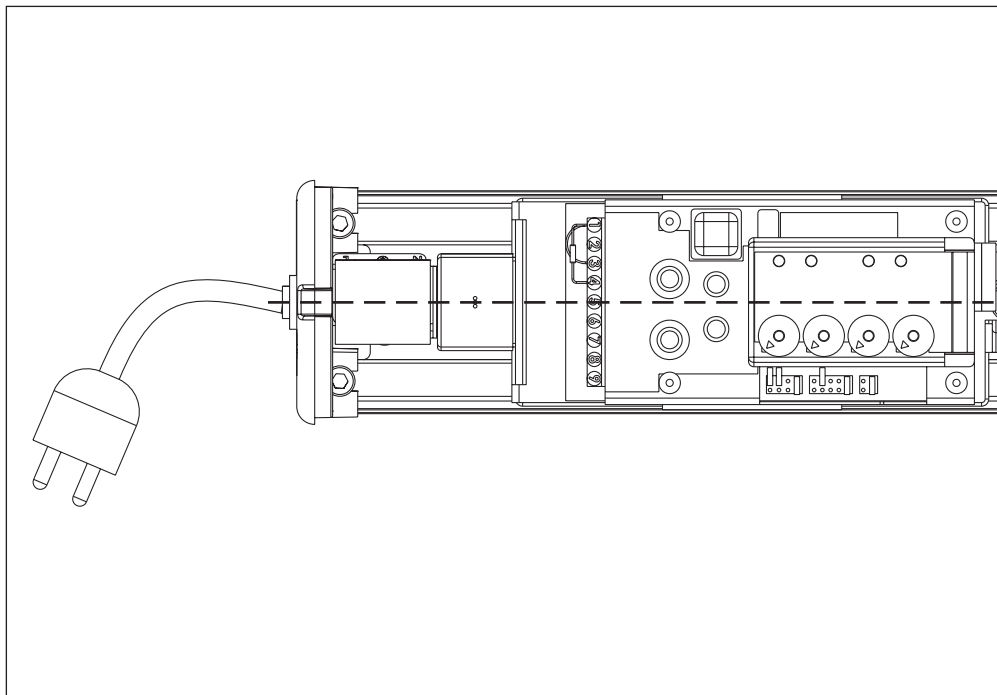
Adjusting rebated doors:

Use potentiometer Delay 2 for adjusting the opening delay for passive door and hold time with potentiometer Hold 2. Proper hold time is 1 - 2 second. If passive door opens first, the door contacts, which are in passive and active door, gives opening impulse to the active door. If there is a mechanical coordinator, there is no need for door contact. In picture is door contact indication, when door is closed.

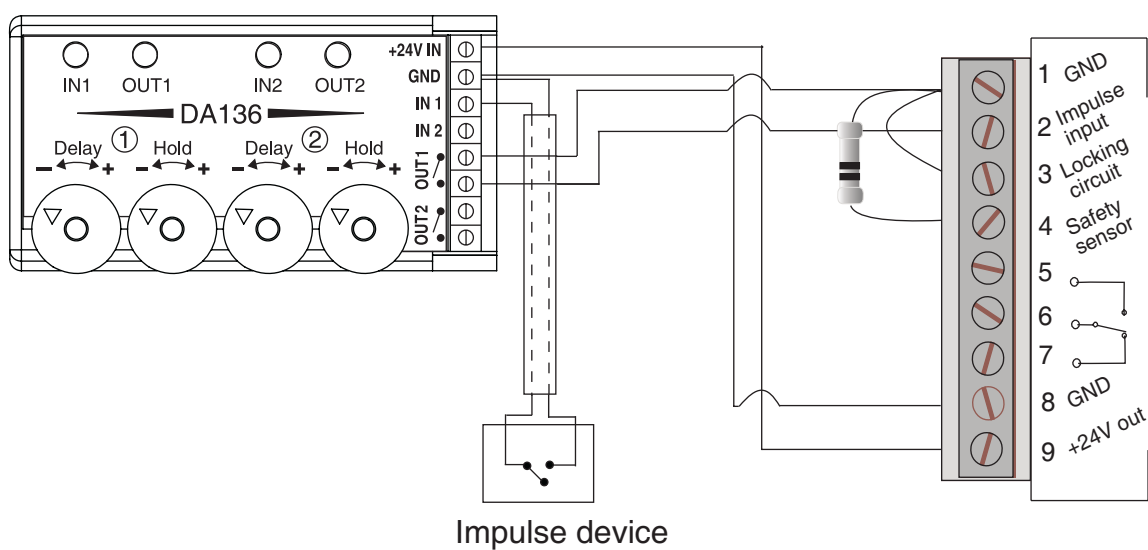
Adjusting stepwise opening:

From impulse device 1 opens first door 1 and after adjusted delay opens door 2. Adjust opening delays from DA136 potentiometer Delay 2. Adjust hold time from potentiometer Hold 2. Proper hold time for output is 1 - 2 second. Use unidirectional radars or mechanical impulse devices.

INSTALLATION TO SWING DOOR OPERATOR DA300

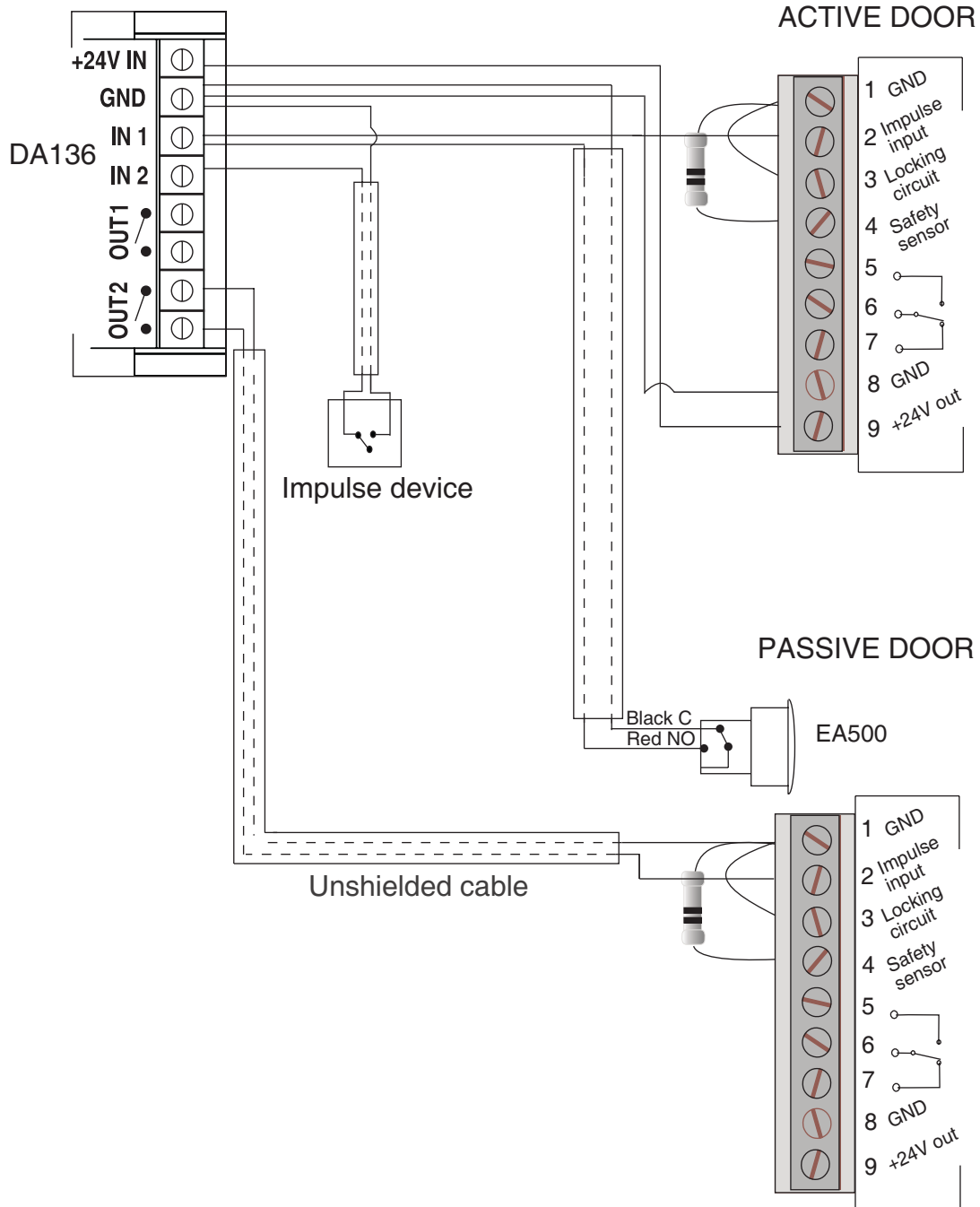


DA300 DELAYED OPENING



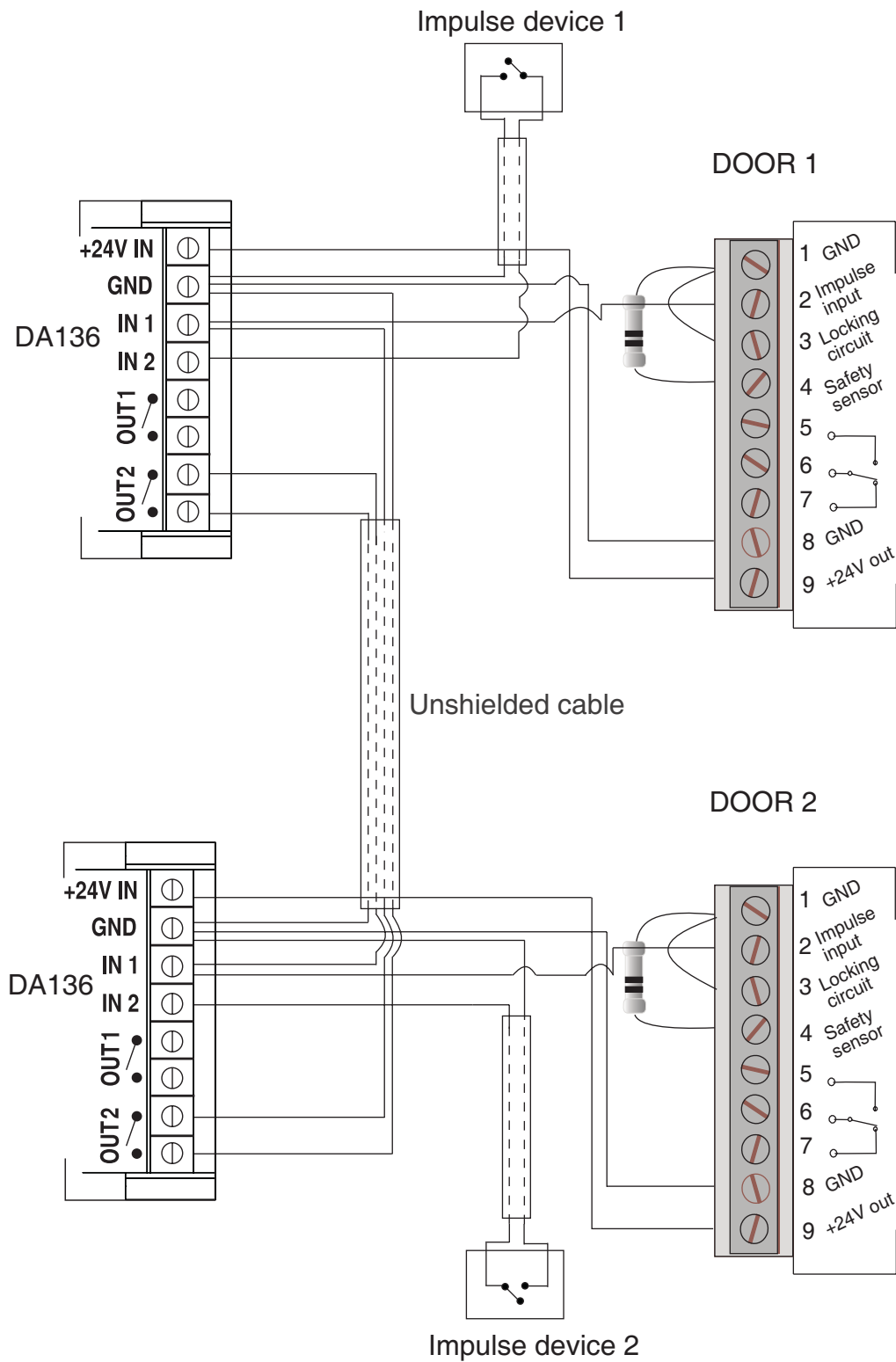
Adjust the delay for opening from potentiometer Delay 1 and hold time using potentiometer Hold 1. Suitable hold time is 1 – 2 second.

DA300 REBATED DOORS



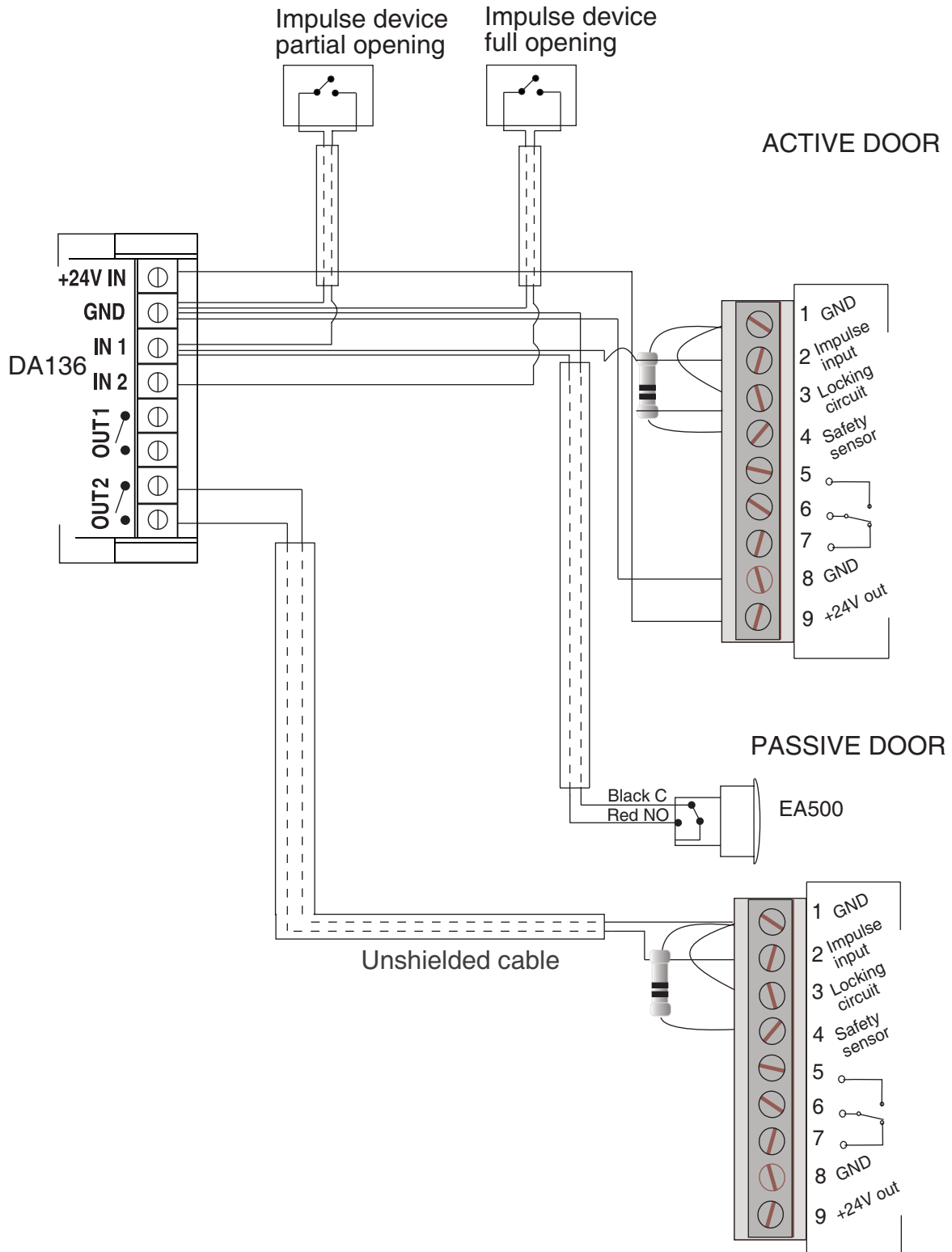
Use potentiometer Delay 2 for adjusting the opening delay for passive door and hold time with potentiometer Hold 2. Proper hold time is 1 - 2 second. If passive door opens first, the door contact, which is in passive door, gives opening impulse to the active door. In picture is door contact indication, when door is closed.

DA300 STEPWISE OPENING



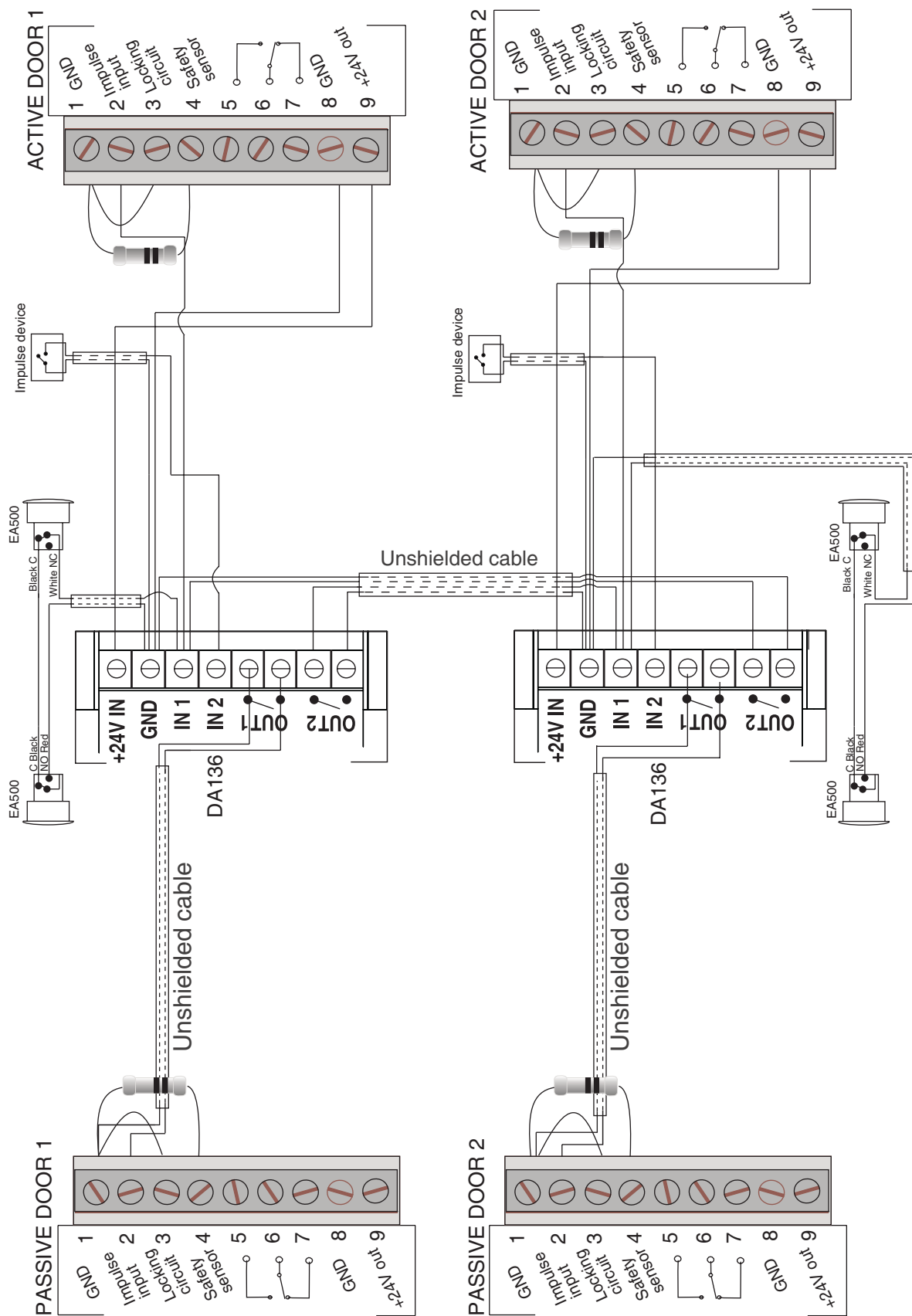
From impulse device 1 opens first door 1 and after adjusted delay opens door 2. Adjust opening delays from DA136 potentiometer Delay 2. Adjust hold time from potentiometer Hold 2. Proper hold time for output is 1- 2 second. Use unidirectional radars or mechanical impulse devices.

DA300 FULL OPENING - PARTIAL OPENING



Use potentiometer Delay 2 for adjusting opening delay for passive door and potentiometer Hold 2 for adjusting hold time. Proper hold time is 1 – 2 second. Active door starts closing after passive door has closed and active doors open time has finished. If opening sequence is incorrect e.g. passive door opens first, the door contact will give opening impulse to active door.

DA300 STEPWISE OPENING FOR REBATED DOORS



Adjusting rebated doors:

Use potentiometer Delay 2 for adjusting the opening delay for passive door and hold time with potentiometer Hold 2. Proper hold time is 1 - 2 second. If passive door opens first, the door contacts, which are in passive and active door, gives opening impulse to the active door. In picture is door contact indication, when door is closed.

Adjusting stepwise opening:

From impulse device 1 opens first door 1 and after adjusted delay opens door 2. Adjust opening delays from DA136 potentiometer Delay 2. Adjust hold time from potentiometer Hold 2. Proper hold time for output is 1-2 second. Use unidirectional radars or mechanical impulse devices.



This product contains materials, such as electronics, which require specialist recycling techniques. When the product is taken out of use, disassemble it and sort and recycle the different materials as per valid recycling instructions.

Nimike
9512549
Päiväys
08/2008



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