

Cerberus® AlgoRex

## Input/output modules

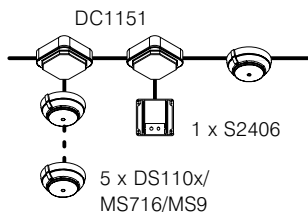
Interactive

**DC1150**  
**DC1150-AA**

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- **DC1150 Series:**
    - Thanks to its robust construction, the line modules can be used in both dry and dusty/wet areas
    - Housing for surface mounting with PG16 cable entries
  - **DC1150-AA Series:**
    - For use in dry areas
    - Can be mounted in a row with standard guides
  - **Two-wire installation**
  - **No additional supply required**
  - **Equipped with isolating function**

## Input module DC1151

### Application



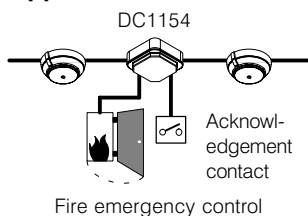
Allows the connection of fire detectors with collective address to the interactive fire detection system. Up to five DS110x, MS716, MS9 or one S2406 detector can be connected to the input module via a stub line with collective detector evaluation.

### Functions

The stub line of the connected detectors is supplied via the detector bus.  
The detectors connected to the input module are registered by the control unit by means of the individual address of the input module.  
The alarm is reset by a control signal from the control unit.  
The address is assigned during commissioning via the key integrated in the module and confirmed by the flashing of the red LED. With closed housing, the key and the LED are not visible.

## Output modules DC1154, DC1154-AA

### Application



Provides decentralized activation of fire doors, ventilators, air conditioning etc.  
Control output with a volt-free relay contact.  
The acknowledgment for status or alarm messages is configurable via the fire detection control unit.

### Functions

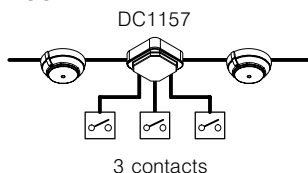
Acknowledgements can be carried out with volt-free make or break contacts. These are connected to the monitored acknowledgement input.  
The address is assigned during commissioning via the key integrated in the module and confirmed by the flashing of the red LED.

- DC1154: With closed housing, the key and the LED are not visible.
- DC1154-AA: The LED lights through the transparent cover.

The key is provided to release a danger signal during normal operation (performance check).

## Input modules DC1157, DC1157-AA

### Application



Enables the connection of three independent volt-free make or break contacts for the acknowledgement of technical statuses (e.g. door contacts) or for alarm activation (e.g. sprinkler contacts).  
Configuration of the inputs for status or alarm messages can be made independent of each other. Each input has its own address.

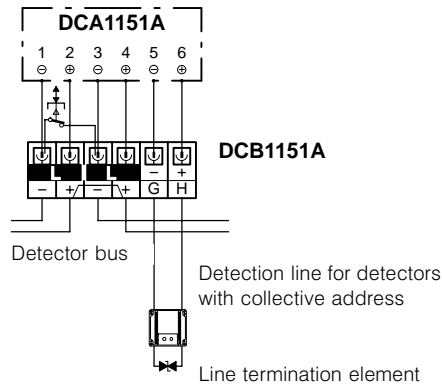
### Functions

The acknowledgement lines are monitored by an end resistor for interruption, with two end resistors and the corresponding control unit configuration also for short-circuit.  
The address is assigned during commissioning via the key integrated in the module and confirmed by the flashing of the red LED.

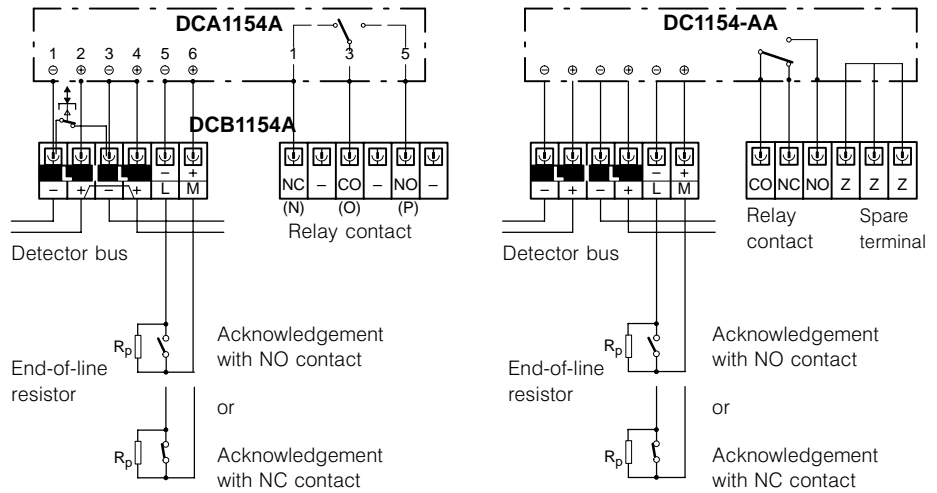
- DC1157: With closed housing, the key and the LED are not visible.
- DC1157-AA: The LED lights through the transparent cover.

# Connection

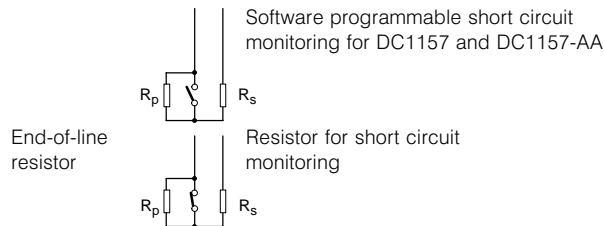
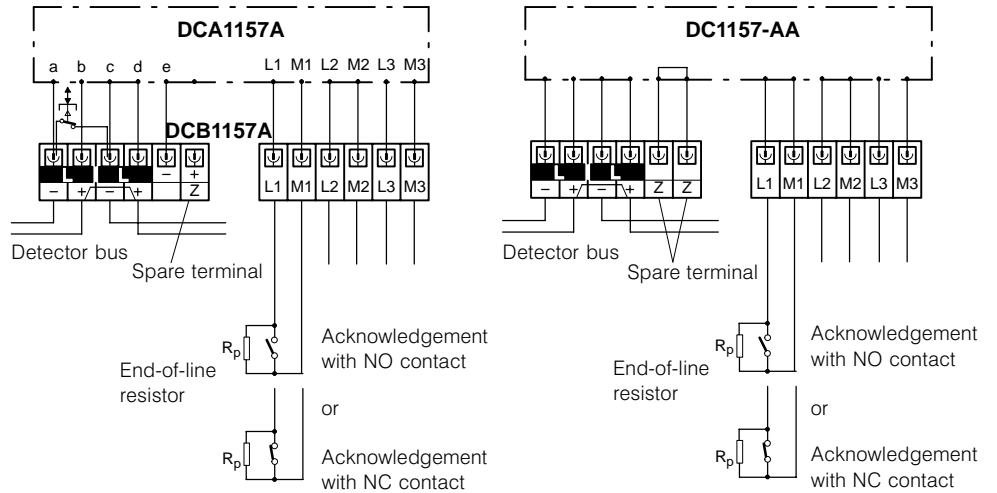
DC1151



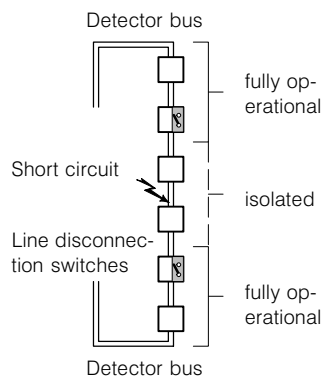
DC1154 (left)  
DC1154-AA (right)



DC1157 (left)  
DC1157-AA (right)



## Isolating function



Built-in disconnection switches: Any short circuit on the detection line is located by the control unit and the defective component isolated. A loop line ensures optimal security.

## Installation

### DC1150 Series

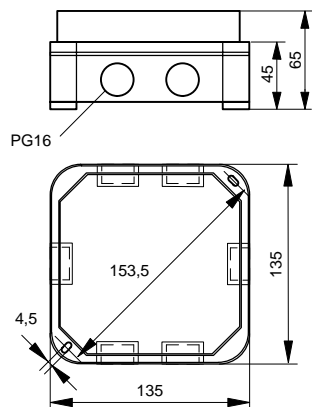
The housing with cover DCA1191 and the terminal plate DCB115x are required for installation. The housing has six PG16 threaded cable entries to feed in the cable. The DCA115x electronics unit is only inserted after the wiring check shortly before commissioning.

### DC1150-AA Series

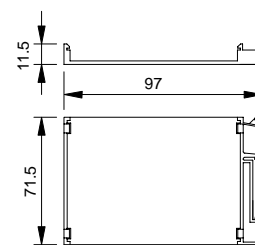
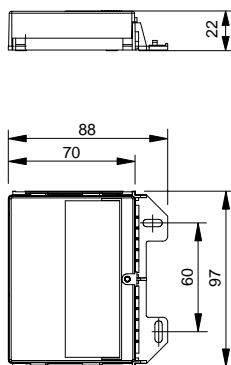
The module is mounted on the wall or ceiling direct, in housing DCA1191 or in any other housing. Using the DCZ1190-AA mounting plate enables modules to be mounted in a row on standard guides. Modules can be installed and connected with or without the electronics unit being inserted.

## Dimensions

### DC1150 Series (DCA1191)



### DC1150-AA Series



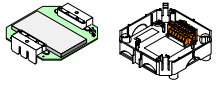
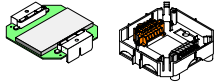
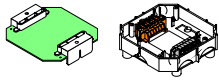
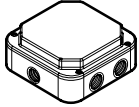
DCZ1190-AA

## Technical data

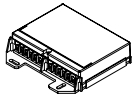
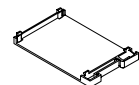
	DC1151	DC1154	DC1157	DC1154-AA	DC1157-AA
Load factor					
- IMK	12	2	3	2	3
- ITK	1	1	1	1	1
Connection collective line	max. 5 detectors with KLK = 1	-	-	-	-
Line resistance (collective line)	≤10Ω	-	-	-	-
Line resistance (feedback line)	-	≤10Ω	≤20Ω	≤20Ω	≤20Ω
Relay output	-	volt-free switch- over contact 240V <sub>AC</sub> /4A or 125V <sub>DC</sub> /4A (max. 150W)	-	volt-free switch- over contact max. 30V <sub>AC</sub> /DC/1A	-
Approvals					
- Relay	-	SEV/VDE	-	-	-
Operating temperature	-25...+70°C			-10...+60°C	
Storage temperature	-30...+75°C			-30...+75°C	
Humidity	≤34°C: ≤100% r.h. (with housing DCA1191) >34°C: ≤35g/m <sup>3</sup> (with housing DCA1191)			≤95% r.h.	
Protection category	IP56 (with housing DCA1191)			IP30	
Colour	Housing DCA1191: white ≈RAL9010			Base plate: white ≈RAL9010 Cover: transparent matt	
Wire cross-sectional area per terminal	0.2...2.5mm <sup>2</sup> (AWG24...14)			0.2...1.5mm <sup>2</sup> (AWG24...16)	

## Details for ordering

### DC1150 Series

	Type	Part no	Designation	Weight
Input module DC1151 	DCA1151A	494247	Electronics unit	0.090kg
	DCB1151A	494250	Terminal plate	0.090kg
Output module DC1154 	DCA1154A	494263	Electronics unit	0.090kg
	DCB1154A	494276	Terminal plate	0.070kg
Input module DC1157 	DCA1157A	494289	Electronics unit	0.120kg
	DCB1157A	479369	Terminal plate	0.105kg
Housing 	DCA1191	458856	Housing with cover	0.265kg
	DBZ1190-AA	467708	Microterminal 0.5mm <sup>2</sup>	0.001kg
	-	405676	Cable gland PG16	0.035kg

### DC1150-AA Series

	DC1154-AA	522591	Output module	0.070kg
	DC1157-AA	522630	Input module	0.070kg
	DCZ1190-AA	522627	Mounting plate	0.020kg

### Spare parts

-	460051	Line termination Transzorb diode, bidirectional, 20V, 5%, 600W/ms, for DC1151	0.001kg
-	137122	Resistor (R <sub>p</sub> ), 4.75k $\Omega$ , 1%, 0.25W, for DC1154(-AA) and DC1157(-AA)	-
-	328944	Resistor (R <sub>s</sub> ), 1.87k $\Omega$ , 1%, 0.25W, for DC1157(-AA)	-

