



Cerberus® AlgoRex

Input/output module

DC1192

Interactive / AnalogPLUS / Collective

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- **Input/output module suitable for:**
 - collective fire detection system as detection line coupler
 - interactive and AnalogPLUS fire detection system
 - for the connection of up to 25 fire detectors with collective address or
 - for the connection of monitored alarm devices
 - **Operation with additional 24V supply**
 - **Microprocessor-controlled evaluation and line isolation function**
 - **Housing for surface mounting with PG16 cable entries**
 - **Robust construction for use in dry, dusty and wet areas**

Application

In the collective fire detection system:

- For galvanic isolation (detection line coupler) between control unit and e.g. shunt Zener diode barrier with fire detectors for explosion-hazard areas.

In the interactive and AnalogPLUS fire detection system (with software EP5):

- For the connection of fire detectors with collective address (special detectors or via shunt Zener diode barriers, detectors for explosion-hazard areas) or for the activation of alarm devices.
- For connection on the line direct as a bus user.

Functions

In the interactive and AnalogPLUS fire detection system:

- *Address assignment* during commissioning via the key on the electronics unit. Correct addressing is indicated by the flashing of the LED. The key and LED are only accessible or visible when the housing is open.
- *Built-in line disconnection switches*. Any short circuit on the detector bus is located by the control unit and the defective component isolated between two line disconnection switches. A loop line ensures optimal security.

Installation

- The housing with cover DCA1191 and the terminal plate DCB1192A are required for installation. The housing has six PG16 threaded cable entries to feed in the cable.
- The DCA1192A electronics unit is only inserted after the wiring check shortly before commissioning.

Technical data

Primary line	Collective line	Compatible with E3M080, CI1110/15, CZ10, KB24, GF24 KMK = 1
	- Load factor	
	Interactive line	Compatible with E3M070, E3M071, K3M071 IMK = 2 ITK = 1
	- Load factor	
	- Line separator factor	
	AnalogPLUS line	Compatible with E3M110, E3M111, K3M111, CI1115 APMK = 3
	- Load factor	
Secondary line	Collective line	
	- Operating voltage	18...22V _{DC}
	- Operating current	max. 5mA
	- Line resistance, depends on the type of line	50...250Ω
	- End-of-line unit	EOL22(Ex)
	- Line factor	KLK = 25
	External supply	
	- Operating voltage	18...32V _{DC}
	- Quiescent current (standby)	≤45mA
	- Operating current, collective line	≤0,15A
	- Operating current, control line	0.2...2A
	- Ripple	max. 2V _{pp}
	Control line	
	- Operating voltage	18...32V _{DC}
	- Operating current	max. 2A / 60W
- End-of-line unit (EOL1)	Resistor 3kΩ, 1%, 0.25W	
Wire cross-sectional area per terminal	0.2...2.5mm ² / AWG24...14	
Operating temperature	-25...+70°C	
Storage temperature	-30...+75°C	
Humidity with DCA1191	≤34°C: ≤100% r.h. >34°C: ≤35g/m ³	
IEC protection category with DCA1191	IP56	

Legend:

KMK = Load factor for collective elements
 IMK = Load factor for interactive elements
 ITK = Interactive line separator factor
 APMK = Load factor for AnalogPLUS elements
 KLK = Collective line factor

Notes:

Compatibility of the detectors on the secondary line as for E3M080
 Admissible only electronic alarm devices
 For Ex application observe the rules as prescribed in the document e1204 with current index

