

AlgoRex Synova<sup>™</sup>

# Input/output module



#### Interactive, AnalogPLUS/SynoLOOP, collective/SynoLINE600

- Input/output module, consisting of housing with cover DCA1191, switching unit DCA1192A, and terminal block DCB1192A
- Suitable for
  - Collective fire detection system as detector line coupler
  - Interactive and AnalogPLUS/SynoLOOP fire detection system for the connection of up to 25 fire detectors with collective/SynoLINE600 address, or for the connection of monitored alarm devices
- Operation with additional DC 24 V supply
- Microprocessor-controlled evaluation and line separation function
- Housing for surface mounting, with M20 thread for cable glands
- Robust design for use in dry, dusty, and humid areas



### Function in the interactive and AnalogPLUS/SynoLOOP fire detection system

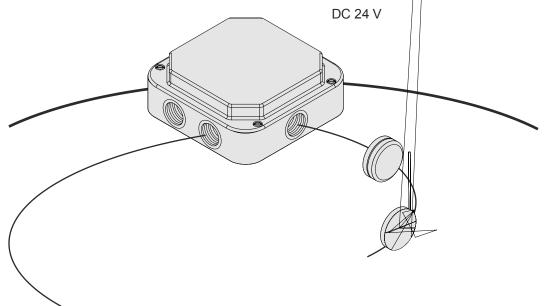
- The address is allocated during commissioning using the button on the switching unit.
- The correct addressing is indicated by the flashing LEDs.
- Button and LED are only accessible or visible when housing is open.

#### Use in the collective/SynoLINE600 fire detection system

• For galvanic isolation (detector line coupler) between the control panel and, for example, the safety barrier SB3 with fire detectors for areas at risk of explosion.

### Use in the interactive and AnalogPLUS/SynoLOOP fire detection system

- For connecting fire detectors with a collective/SynoLINE address (special detectors or, via safety barriers, detectors for areas at risk of explosion) or for activating alarm devices.
- Direct connection to the line as bus participant.



Type Overview				
Туре	Designation	Order number	Weight [kg]	
DCA1191	Housing with cover	BPZ:4588560001	0.284	
DCA1192A	Switching unit	BPZ:5081200001	0.083	
DCB1192A	Terminal block	BPZ:5084500001	0.067	

## Accessories for the input/output module DC1192

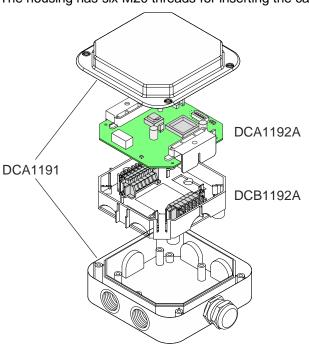
Туре	Designation	Order number	Weight [kg]
DBZ1190-AA	Auxiliary terminal, 0.280.5 mm <sup>2</sup>	BPZ:4677080001	0.001
-	Metal cable gland M20 x 1.5	A5Q00004478	0.036
EOL22(Ex)	End-of-line	BPZ:5162220001	0.004

Product documentation			
Document ID	Name		
001204	Principles, applications, installation, maintenance Fire alarm signal in areas at risk of explosion		
001508	Guidelines Connection factors, line resistances and capacitances for fire detection systems collective, AnalogPLUS, interactive, FDnet		
001519	Installation instructions Input / output module DC1192		
008331	List of compatibility (for 'Sinteso™' product line)		
A6V10229261	List of compatibility (for 'Cerberus™ PRO' product line)		

Related documents such as environmental declarations, CE declarations, etc., can be downloaded at the following Internet address: http://siemens.com/bt/download

### Mounting

The housing has six M20 threads for inserting the cables.



#### Installation

- For the installation, the housing with cover DCA1191 and the terminal block DCB1192A are required.
- The switching unit DCA1192A is only inserted once installation has been checked just before commissioning.

#### Disposal

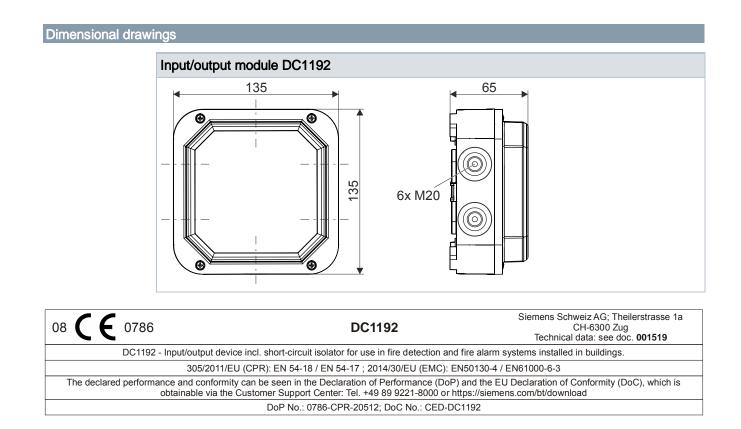


The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Primary line		
Collective line/SynoLINE600		
Compatible with	E3M080, CI1110/15, FC330A, FC10, FC700A, CZ10, KB24, GF24	
<ul> <li>Connection factor KMK</li> </ul>	1	
Interactive line		
Compatible with	E3M071, K3M071	
<ul> <li>Connection factor IMK</li> </ul>	2	
<ul> <li>Separator connection factor ITK</li> </ul>	1	
Interactive line:		
Line separator		
Line voltage:		
Nominal	DC 32 V (= $V_{nom}$ )	
Minimum	DC 21.2 V (= $V_{min}$ )	
Maximum	DC 33 V (= V <sub>max</sub> )	
Voltage at which the line separator opens:		
<ul><li>Minimum</li><li>Maximum</li></ul>	DC 11.2 V (= V <sub>SO min</sub> ) DC 14.9 V (= V <sub>SO max</sub> )	
	DC 14.9 V (= VSO max)	
<ul> <li>Voltage at which the line separator closes:</li> <li>Minimum</li> </ul>		
Maximum	DC 15.5 V (= V <sub>SC min</sub> ) DC 19.5 V (= V <sub>SC max</sub> )	
Permanent current when switches are closed	Max. 110 mA (= I <sub>C max</sub> )	
Switching current (e.g., in the event of a short-circuit)	Max. 200 mA (= I <sub>S max</sub> )	
Leakage current when switches are open	Max. 1 mA (= I <sub>L max</sub> )	
Serial impedance when switches are closed	Max. 0.55 Ω= Z <sub>C max</sub> )	
The line separator is opened and closed independently o	f the operating range of the device.	
Required line voltage range	DC 11.233 V	
AnalogPLUS/SynoLOOP		
Compatible with	E3M11, K3M11, CI1115, FC330A, FC700A	
Connection factor APMK	3	
AnalogPLUS/SynoLOOP line:		
Line separator	1	
Line voltage:		
Nominal	DC 27 V (= V <sub>nom</sub> )	
Minimum	DC 16 V (= $V_{min}$ )	
Maximum	DC 28 V (= V <sub>max</sub> )	
Voltage at which the line separator opens:		
Minimum	DC 5 V (= $V_{SO min}$ )	
• Maximum	DC 9 V (= V <sub>SO max</sub> )	
Voltage at which the line separator closes:		
<ul><li>Minimum</li><li>Maximum</li></ul>	DC 11.5 V (= V <sub>SC min</sub> ) DC 14.5 V (= V <sub>SC max</sub> )	
	DC 14.5 V (= VSC max)	

Permanent current when switches are closed	Max. 50 mA (= I <sub>C max</sub> )	
Switching current (e.g., in the event of a short-circuit)	Max. 100 mA (= I <sub>S max</sub> )	
Leakage current when switches are open	Max. 1 mA (= I <sub>L max</sub> )	
Serial impedance when switches are closed	Max. 1.3 Ω= Z <sub>C max</sub> )	
The line separator is opened and closed independently of th	e operating range of the device.	
Required line voltage range	DC 533 V	
Secondary line		
Collective line/SynoLINE600		
Operating voltage	DC 1822 V	
Operating current (quiescent)	Max. 5 mA	
• Line resistance, depends on the line type	50250 Ω	
End-of-line	EOL22(Ex)	
Line code KLK	25	
External supply		
Operating voltage	DC 1832 V	
Quiescent current (standby)	≤45 mA	
<ul> <li>Operating current, collective line</li> </ul>	≤0.15 A	
<ul> <li>Operating current, control line</li> </ul>	0.22 A	
Ripple	Max. 2 V <sub>pp</sub>	
Control line		
Operating voltage	DC 1832 V	
Operating current	Max. 2 A, 60 W	
• End-of-line resistance	3.01 k Ω1 %, 0.25 W	
Cable cross section	0.22.5 mm <sup>2</sup> (AWG2414)	
Operating temperature	-25+70 °C	
Storage temperature	-30+75 °C	
Air humidity	≤95 % rel.	
Color	~RAL 9010 pure white	
Protection category (IEC 60529) with housing DCA1191	IP56	
Standards	EN 54-17, EN 54-18	
Approvals		
• VdS	G298021	
• LPCB	126bm/02	



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