

Technical Data Sheet DCU 1012

1. Technical data

Housing dimensions (L x W x D) (Incl. connection clamps)	: 220 mm x 138 mm x 55 mm
Housing material	: Polystyrene (plastic)
Weight	: approx. 0.55 kg
Type of housing protection	: IP 20
Operational temperature range	: -10°C to +60°C
Type of connection	: Connection terminals for conductor cross section 1.5 mm ²

2. Electrical data

Nominal input voltage	: 24 VDC ±20% / max. 0.2 A
Current consumption	
Nominal input current	: max. 0.2 A
Tripping current	: max. 4 A
Connection for the power supply	
"24 VDC"	: Nominal input voltage / max. 0.2 A

Potential-free signal contacts

"Alarm" message	: 1x potential-free changeover switch
Maximum contact load	: 30 VDC / 5 A

Potential-free signal contacts

"Fault" message	: 1x potential-free changeover switch
Maximum contact load	: 30 VDC / 5 A

Supply voltage connections for controls and indicators:

"24 VDC"	: Nominal input voltage / max. 0.3 A
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Outputs for signalling elements

"Operation"	: open-collector: max. 30 VDC / 0.8 A <u>or</u> with series resistor limited to max. 0.02 A
"Alarm"	: open-collector: max. 30 VDC / 0.8 A <u>or</u> with series resistor limited to max. 0.02 A
"Alarm even-numbered reporting modules"	: open-collector: max. 30 VDC / 0.8 A <u>or</u> with series resistor limited to max. 0.02 A
"Alarm odd-numbered reporting modules"	: open-collector: max. 30 VDC / 0.8 A <u>or</u> with series resistor limited to max. 0.02 A
"Released"	: open-collector: max. 30 VDC / 0.8 A <u>or</u> with series resistor limited to max. 0.02 A
"Fault even-numbered reporting modules"	: open-collector: max. 30 VDC / 0.8 A <u>or</u> with series resistor limited to max. 0.02 A
"Fault odd-numbered reporting modules"	: open-collector: max. 30 VDC / 0.8 A <u>or</u> with series resistor limited to max. 0.02 A

Inputs for control elements

"Reset"	: max. 30 VDC / 0.01 A, min. 100 ms
"Automatic release ON/OFF"	: max. 30 VDC / 0.01 A, min. 100 ms
"Manual release"	: max. 30 VDC / 0.01 A, min. 100 ms
"External manual release"	: max. 30 VDC / 0.01 A, min. 100 ms

3. Connection options

1 x control panel	: Type BED 1012 LU
8 x fire detectors	: 8 inputs (TF 180 or active fire detectors with line termination resistor Re=4k7)
Manual release push button	: 2 inputs
Fire extinguishing generators	: 16 inputs
Supply voltage	: 2 inputs for active fire detectors "Alarm" switch point for passive fire detectors +/- 10C° (smaller tolerance by agreement)

For further technical details and queries, please contact
Technical data subject to change without notice

Status: November 2014

8 inputs with alarm switching points for heat detectors

Connection options per input

1 x temperature sensor : Type TF 180-...
or
Passive fire detectors : With a line termination resistor $R_e = 100k/0.6W$

Monitoring the inputs:

"Alarm" input : Monitoring of wire breakages
"Alarm" monitoring

input for supply voltage for active fire detectors (2x)

Connection options per input:

1x active fire detectors : With a line termination resistor $R_e = 4k7/0.6W$
or
Passive fire detectors : With a line termination resistor $R_e = 4k7/0.6W$

Monitoring the inputs:

"Alarm" input : Monitoring of wire breakages
"Alarm" monitoring

Inputs for manual release internal/external (2x)

Connection options

2 x manual release button : Type MR 289....

Monitoring the inputs

Manual release, internal or external: Monitoring of wire breakages
"Alarm" monitoring

Inputs for aerosol fire extinguishing generators (16x)

16 x : Type Dynameco ...-E02... -E03 wire break monitoring

4. Line dependency of the "Alarm" messages as trigger criterion in the "Automatic Release ON" mode

Per agreement* : No line dependency, or
"2-line" dependency, or
"4 or 8 generators release immediately
the next 4 or 8 generators release after agreed time.

5. Time delays and intervals

Time delay for the triggering of the
release circuits after an "Alarm" message : Per agreement* (e.g. 30 seconds)
Periodic, sequential triggering intervals
for the release circuits after the time delay has expired: 100 ms release circuit 1
100 ms release circuit 2
100 ms release circuit 8
Continuous

6. Labelling language

Standard : German
or per agreement* : English, French, Italian, etc.

* **These points must be stipulated when ordering!**