

Telemetry Signal Distribution Unit BED-108/2

ernitec

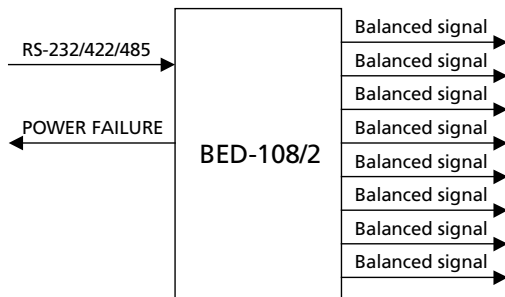
Features

- The input signal is duplicated onto eight outputs
- Accepts RS-232, RS-422 and RS-485 simplex serial signals
- Outputs up to eight balanced serial signals
- Transmission distance up to 5 km
- Multiple units can be cascaded for more than eight outputs
- Galvanic separation between input and outputs
- Power failure indication
- Mains power selectable between 115 and 230 VAC

Description

The BED-108/2 is used when the default daisy-chain configuration of the telemetry signal must be changed into a star configuration or if the Ernitec telemetry receivers are daisy-chained on several lines.

In addition to distributing the signal from the input terminal to the eight outputs the BED-108/2 amplifies the signal for extended transmission distance and provides galvanic separation of the input and the outputs thereby eliminating ground loop problems.



Block diagram of the BED-108/2



Specifications

Telemetry Input Specifications	
Input voltage range	2 to 10 V _{pp}
Signal types	Simplex RS-232, RS-422, RS-485
Input impedance	120 Ω ±12 Ω
Current	> 8 mA
Telemetry Output Specifications	
Number of outputs	8
Output voltage level	typ. 10 V _{pp} balanced
Signal type	Simplex
Load impedance	120 Ω
Transmission distance	< 5 km, on 0.6 mm twisted pair cable
Power Alarm Specifications	
Contact type	Potential free, NO/NC
General Specifications	
Supply voltage	115 VAC and 230 VAC, selectable
115 VAC selected	104 to 126 VAC, 45 to 60 Hz
230 VAC selected	207 to 253 VAC, 45 to 60 Hz
Power consumption	< 11 VA
EMI / EMC	EN 50081-1, EN 50130-4
Safety	EN 60950

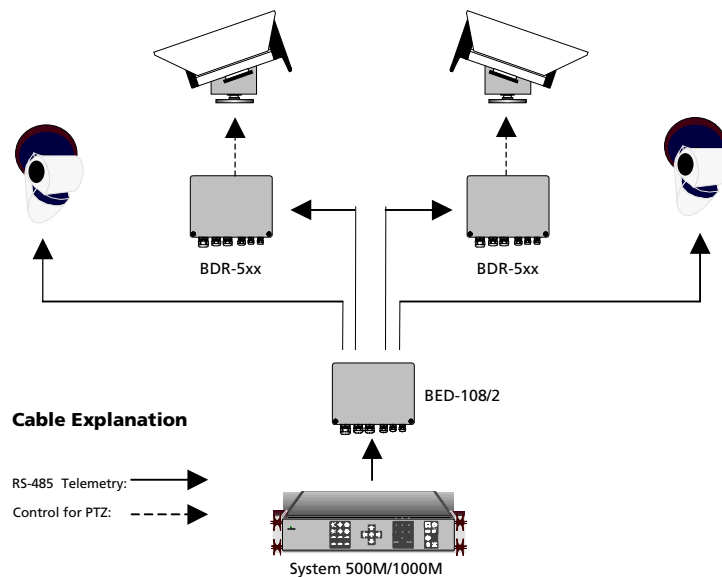
Temperature range	-20°C to +55°C
Humidity	< 95 %RH
General Specifications (cont.)	
Cable glands	
Mains power input	PG 16
All other connections	PG 9
Size (W x H x D)	240 x 160 x 90 mm, excl. cable glands
Weight	1.2 kg
Tightness	IP 65
Enclosure Material	ABS

Applications

The telemetry control signal from a Matrix 500M or 1000M is usually distributed to a number of telemetry receivers in a daisy-chain configuration, i.e. the signal goes from the matrix to the first telemetry receiver and from there onwards to the next telemetry receiver and so on. This is not always the ideal solution due to the physical location of the PTZ cameras.

An alternative to the daisy-chain configuration is to build a star configuration, i.e. the telemetry control signal is distributed from the matrix to the telemetry receivers on individual cables. In order to do this, a BED-108/2 is required.

It is also possible to combine the daisy-chain and the star configurations as shown in the block diagram below.



Application diagram for BED-108/2



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