


# BZ 883

## “Digital Creep Feed Display“

B+Z Art. Nr: 595

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# 1. Functions / Requirements

## 1.1. Description

The Creep Feed Display is part of the locomotive speed monitoring. The unit in its plastic housing can be easily integrated in the drivers console and is able to digitally display different analog input signals. The brightness of the LED display is set by a control signal.

## 1.2. Function

The instrument displays digitally the creep speed or the speed steps depending of the mode in use.

**Creep Mode:** [00...99]

**Normal Mode:** [0...8]

Two values are displayed simultaneously up to two digits: The set value [!] and the current value [=]

In case of a missing analog signal in Creep-Speeds Mode the display will show only two bars (- -). The brightness of the LEDs is set by a control input signal. In case of lack of this signal the LEDs will be controlled for medium brightness.

## 2. Technical Data

### 2.1. Mechanical Data

#### • Measurements

Measurements : 48x48x75mm  
Max. Length : including connector approx. 170mm  
Weight : approx. 130g

#### • Material

Housing : Plastic, black  
Front Panel: Plastic, transparent

#### • Assembly


Mounting : in any position with 2 mounting brackets from the rear panel

#### • Front Panel

Acryl: 4 LEDs, 7-segment display, red

#### • Rear Panel

Rear Panel: D-Sub connector 9pol. with coding bracket

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## 2.2. Electrical Data

- **Power Requirements**

Power Supply Voltage: 24VDC (+25% -30%)  
Current consumption: <120mA [at max. brightness or LED-Test]

- **Inputs**

3 Analog: 4...20mA  
2 Digital: 0/24VDC (Mode and LED Test)  
Mode signal: Creep Mode = High, Normal Mode = Low  
Test signal: LED Test = High

- **Electrical Protection Measurements**

Protection diodes for signal inputs

## 2.3. Various Data

- **Ambiance Conditions**

Operation Temperature: -40°C to +40°C  
Humidity : bis 100% rF at 40°C, non condensing

- **Mechanical Protection**

Protection Class : IP 40

- **Waste disposal**

According to local legal regulations

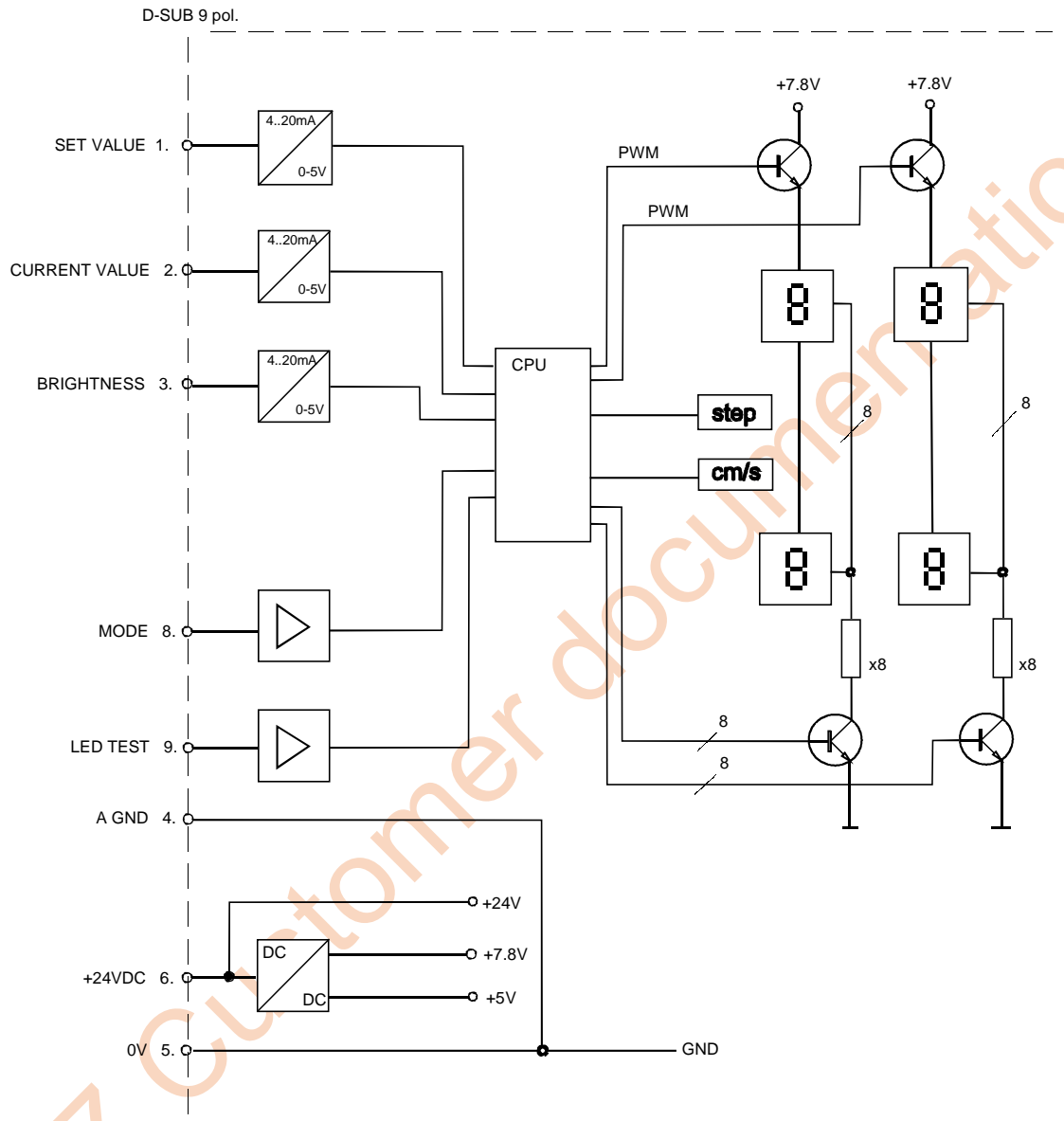



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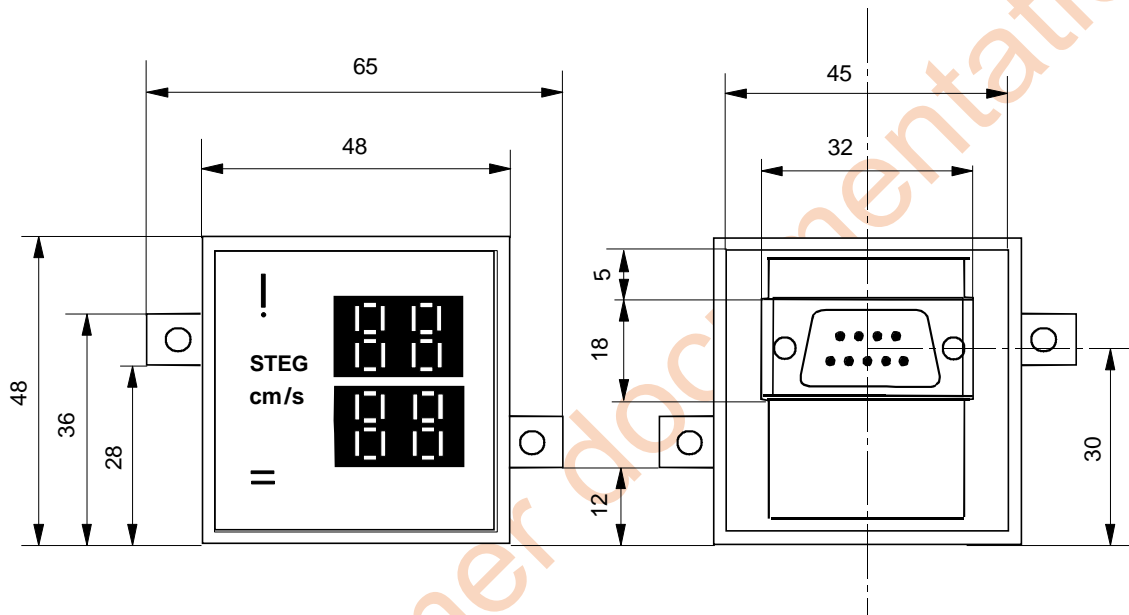
### 3. Pricipal Schematic




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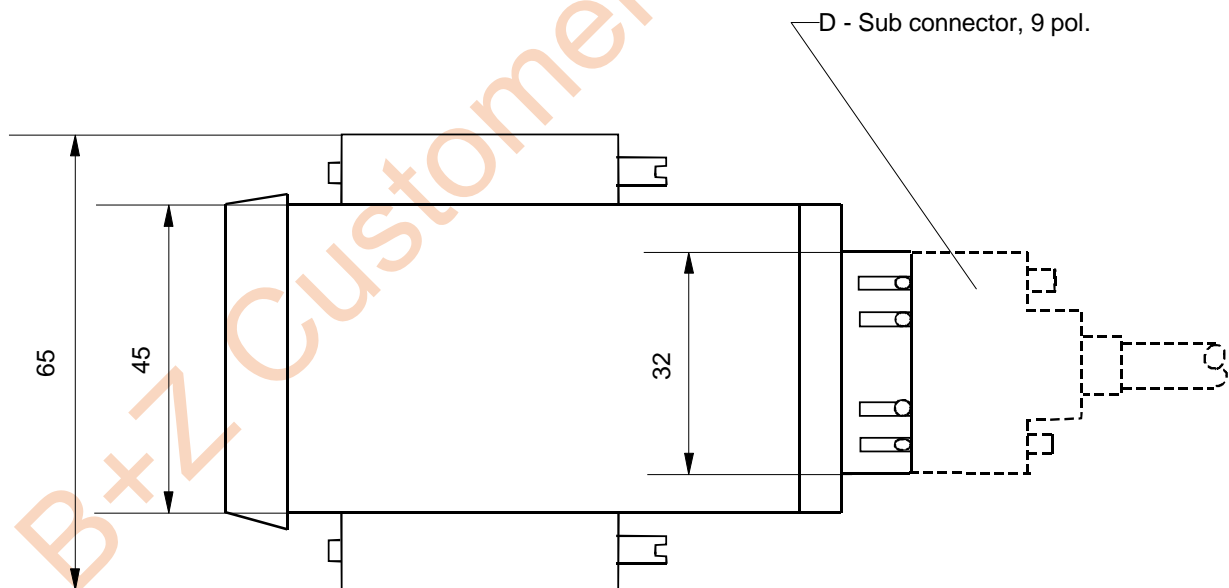
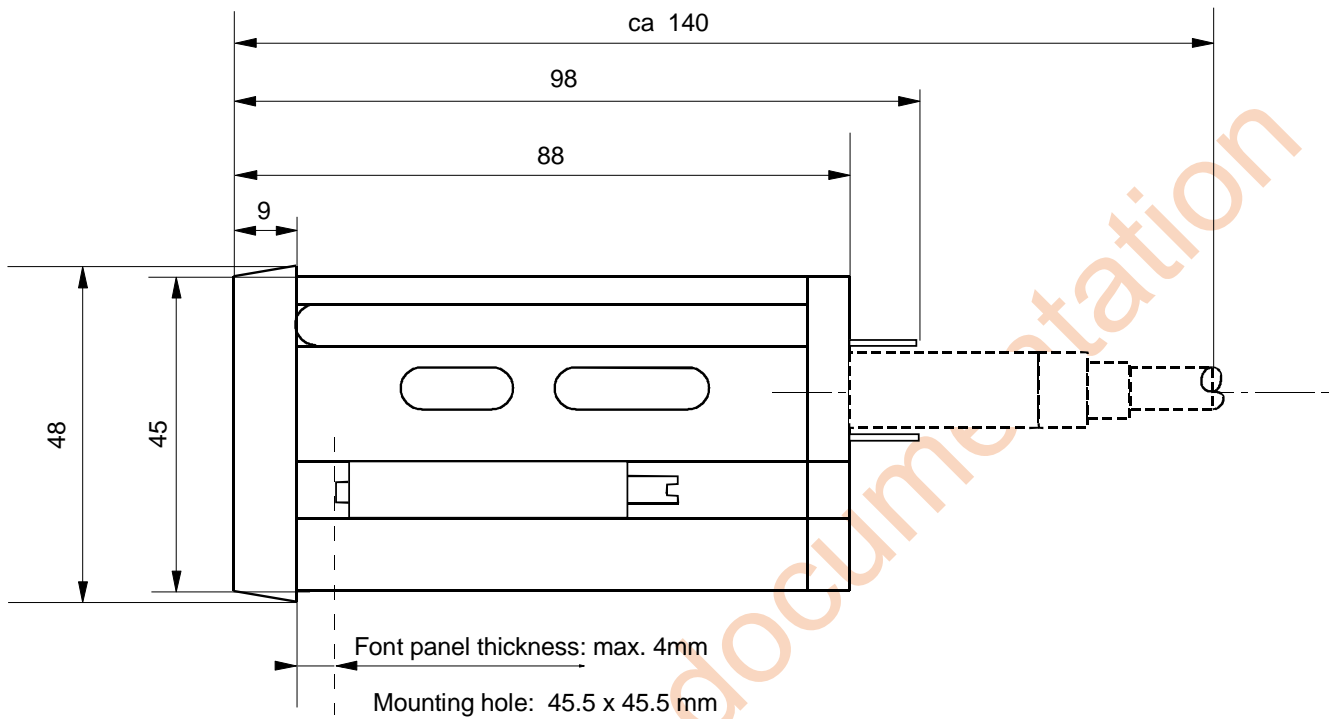
## 4. Physical Measurements


### 4.1 Front View



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## 4.2 Side View



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## 5. Display Values

### Creep Mode :

Input set value(mA) And current value(mA)	Displayed set value (cm/s)	Calculated current value m/s	Displayed Current value (cm/s)
4	0	0	0
4.40	0	0.000	0
4.80	0	0.000	0
5.20	0	0.000	0
5.60	10	0.100	10
6.00	12	0.125	12
6.40	15	0.150	15
6.80	17	0.175	17
7.20	20	0.200	20
7.60	22	0.225	22
8.00	25	0.250	25
8.40	27	0.275	27
8.80	30	0.300	30
9.20	32	0.325	32
9.60	35	0.350	35
10.00	37	0.375	37
10.40	40	0.400	40
10.80	42	0.425	42
11.20	45	0.450	45
11.60	47	0.475	47
12.00	50	0.500	50
12.40	52	0.525	52
12.80	55	0.550	55
13.20	57	0.575	57
13.60	60	0.600	60
14.00	62	0.625	62
14.40	65	0.650	65
14.80	67	0.675	67
15.20	70	0.700	70
15.60	72	0.725	72
16.00	75	0.750	75
16.40	77	0.775	77
16.80	80	0.800	80
17.20	82	0.825	82
17.60	85	0.850	85
18.00	87	0.875	87
18.40	90	0.900	90
18.80	92	0.925	92
19.20	95	0.950	95
19.60	97	0.975	97
20.00	99	1.000	99

### Normal mode:

0.00	0	0
4.00	1	1
6.28	2	2
8.56	3	3
10.84	4	4
13.12	5	5
15.40	6	6
17.68	7	7
20.00	8	8

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