

Tap Position Display Type REG-F 'BCD B4'

The tap position display REG-F 'BCD' shows the BCD coded output signal of a tap position interface or from the dry contact row of a tap changer transformer with BCD output.

An external DC voltage U+ on the inputs 'EBCD1 ...EBCD80' with reference to 'E GND' will be displayed.

The build in power supply unit delivers the internal voltages.

- 8 BCD inputs for range 0 ... 99
- 2 digit display with bright red digits in 20mm size
- Large auxiliary voltage range of the power supply

Technical specifications

Regulations and standards

IEC1010, IEC801-1 to 6, VDE0110, VDE0160

Interference immunity EN50082-2

Emitted interference EN50081-2, EN55011

Mechanical data

Construction Panel mounted housing DIN43700
96x48x122 mm (WxHxD)
material UV94V-1

Connector 1 pieces; 'F1': 12poles, 0.5..1.5 mm²

Degree of protection IP40

Weight inclusive 1 connector < 0.4 kg

Mounting within cutout 92.5x44 mm

Input

External voltage U+ on EBCD1...80, reference to E GND

Input resistance (Ri) ~120 kΩ

EBCD 'ON' 12 .. 150V DC (feature E4)

EBCD 'OFF' <3 VDC

Ripple voltage < 2 V, 50Hz

EBCD 'ON' 50.. 250V DC (feature E3)

EBCD 'OFF' <10 VDC

EBCD 'ON' 50.. 250V AC / DC (feature E31)

EBCD 'OFF' <10 VDC

EBCD 'ON' 180.. 250V DC (feature E39)

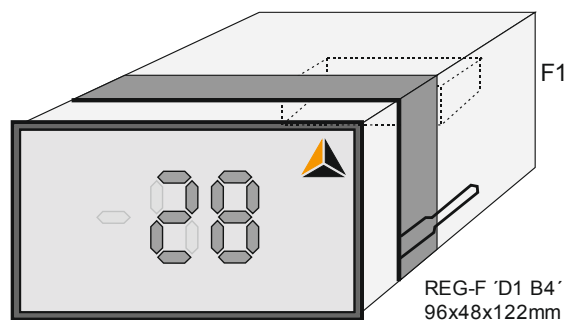
EBCD 'OFF' <100 VDC

Variant with sign (-) (feature A2)

Display from -39 ... -0 ... 39

Sign (-) at pin 6 of F1 connector (EBCD 40)

EBCD 80 is then inactive



Code table

Eingang: BCD Code								Anzeige BCD
80	40	20	10	8	4	2	1	
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	u+	1
0	0	0	0	0	0	u+	0	2
0	0	0	0	0	0	u+	u+	3
0	0	0	u+	0	u+	u+	u+	17
0	u+	u+	u+	u+	0	0	0	78

0 = EGND

Safety

Safety class / overvoltage category

I/II

Contamination level

2

Test voltage

AC 2.3 kV

Auxiliary voltage

inputs EBCD1 ..80, EGND
to PE

Power supply

Galvanically isolated Feature H1 AC 100 ... 240 V / DC 100 ... 353V

isolated Feature H2 AC 20 ... 60 V / DC 20 ... 72V

Power consumption < 6 VA / 6 W H1; 1 A/T H2; 2 A/T

Temperature

Operation

0 ... +55 °C

Storage, transport

-25 ... +75 °C

Contact assignment

connector 'F1' 12pol.	
1	L(+)
2	N (-)
3	PE
4	E GND
5	EBCD 80
6	EBCD 40 (sign -)
7	EBCD 20
8	EBCD 10
9	EBCD 8
10	EBCD 4
11	EBCD 2
12	EBCD 1

Features		Code		
Tap Position Display REG-F BCD B4	panel case 96 x 48	REG-F D1 B4		
Auxiliary voltage	AC 100..240 V / DC 100...353 V	H1		
galvanically isolated	AC 20... 60 V / DC 20 ... 72 V	H2	V-ON	V-OFF
Input voltage U+	DC 12 ... 150 V	E4	≥ 12 V	< 3 V
on EBCD1 ... 80	DC 50 ... 250 V	E3	≥ 50 V	< 10 V
	AC / DC 50 ... 250 V	E31	≥ 50 V	< 10 V
	DC 180 ... 250 V	E39	≥ 180 V	< 100 V
Display range	0 ... 99	A4		
Display range with sign (-)	-39 ... -0 ... 39	A2		

Application REG-F 'BCD B4'

- feature B4 panel case 96 x 48mm
- D1 BCD - input code
- H1 power supply AC 230V
- E4 input 6xBCD
- external voltage U+ DC 12 ... 150V

