AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

PFEA112-20 3BSE050091R20

IP20 Tension Measurement Electronics

TYPE	REFERENCE	FAMILY	SCOPE
IP20 Tension Measurement Electronics	**3BSE050091R20**	**PFEA112**	**IP20 / 24 V DC**

ABB PFEA112-20 3BSE050091R20 is a DIN-rail tension measurement unit for compatible ABB load cells. The unsealed IP20 design combines a local character display with analog signal outputs and PROFIBUS DP communication, allowing measured tension to be presented locally and transmitted externally.

01 DOCUMENTED PRODUCT REFERENCE

Enclosure protection	IP20; unsealed
Supply voltage	24 V DC; operating range 18-36 V
Power consumption	8 W at 24 V DC
Load cell input channels	2
Load cell input impedance	10 kohm
Load cell excitation	0.5 A RMS at 330 Hz
Excitation load limit	2 cells + 5 ohm cable resistance; 1 uF
Voltage output	0-10 V; range -5 to +11 V; max. 5 mA

Manufacturer data summarized for the identified model and stated conditions.

02 TECHNICAL DATA

Current output	4-20 mA; range 0-21 mA; max. 550 ohm
Output response / filter	15, 30, 75, 250, 750 or 1500 ms
Wrap gain adjustment	0.5-20
Zero setting range	+/-2.0 x load cell nominal load
Fieldbus interface	PROFIBUS DP slave; RS-485; max. 12 Mbit/s
PROFIBUS address range	0-125
Display format	2 lines x 16 characters

03 APPLICATION AND CONFIGURATION

- PFEA112-20 and complete 3BSE050091R20 marking
- IP20 DIN-rail enclosure and isolated DC supply
- Load cell characteristics and recorded gain settings
- PROFIBUS address, scaling and output response
- Use the applicable manufacturer safety and installation instructions.

04 OFFICIAL DOCUMENTATION

ABB Web Tension Systems with PFEA111/112/122, 3BSE029380R0201 Rev E

ABB 3BSE029380R0201 Rev E, sections 1.6 and A.3; IP20 and PFEA112 data only. Exact article confirmed by ABB product record 3BSE050091R20.

Independently prepared Amikon reference summary, not an original manufacturer manual. Ratings apply only under their documented conditions. Confirm the supplied marking and approved configuration before selection, installation or replacement.

AMIKON PRODUCT SUPPORT

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