BA-01 overview

**Special Features**

- Force measuring amplifier and measuring transducer for full bridges
- Suitable for all ARTIS monitoring systems
- Stand-alone operation also possible
- Rapid detection of material contact
- Switchable amplifier settings
- Balancing via external switching input
- Degree of protection IP65
- ARTIS CAN bus, ARTIS sensor bus

**BRIDGE AMPLIFIER**

Application example:
**BA-01** and FFP/FFR sensor with the CTM Tool and Process Monitoring System

Application example:
**BA-01** and FFP/FFR sensor with the GENIOR MODULAR Tool and Process System
# BA-01 Bridge Amplifier

**Dimensions**
- See drawing

**Weight**
- 576 g

**Material**
- Die-cast aluminum, gray

**Degree of protection**
- IP65

**Contacting**
- Spring terminal blocks

**Operating temperature**
- 0 – 50 °C

**Installation**
- Screw fastening

**Voltage supply**
- 24 V DC (20 V – 36 V)

**Nominal current consumption**
- Max. 250 mA

**Amplification**
- 100...4000x

**Interfaces** (optional):
- ARTIS CAN bus
- ARTIS sensor bus

**Supply measuring bridge**
- 10 V / max. 42 mA

**Bridge resistance**
- > 240 Ω

**Input range**
- ±50 mV

**Output range**
- ±10 V

**Output impedance**
- 1 kΩ

**Frequency range**
- < 1 kHz

**AD conversion**
- Sampling 12 Bit sliding averaging 2 kHz

**Switching outputs**
- Out1: Signal for material contact, open coll. output, 18 – 36 V DC, up to max. 150 mW
- Out2: Reserved: open coll. output, 18 – 36 V DC, up to max. 150 mW

**Switching input**
- IN: Digital input low: 0 – 5 V, high: 14 – 28 V

**Conformity**
- CE