- 4-Channel
- Control circuit EEx ia IIC
- DC 24 V supply voltage
- Reversible operating mode
- Lead breakage monitoring (LB) can be disabled
- Override input for each of the two transistor outputs per channel
- 3 active transistor outputs per channel

The transformer isolated amplifier transmits digital signals from the hazardous area. Sensors per DIN 19234 (NAMUR) or mechanical contacts can serve as inputs. The control circuit can be monitored by the lead breakage monitoring.

Notes on connection assignments
Inputs d18; d22; d26; d30 (LL+)
These inputs are internally connected. Supply for transistor outputs d20; d24; d28; d32.

Lead breakage monitoring (LB) d2, b2; d4, b4; d6, b6; d8, b8
Lead breakage monitoring can be disabled by bridging the above connections. If necessary, the unit can be supplied with the lead breakage monitoring feature already disabled with a factory installed jumper on the card.

Mode of operation z18; z22; z26; z30
1-Logic: no reversal of operating mode from input to output
0-Logic: reversal of operating mode from input to output
(see table of operating modes on page 25)
If necessary, the operating mode can also be selected with a factory installed jumper on the card.

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### Transformer Isolated Amplifier EG4-T

**Output:** Transistors

**Front View**

Type A
(dimensions see page 16)

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### Technical data

#### Power supply
- **Nominal voltage**
- **Ripple** ≤ 10 %
- **Nominal current**

#### Power Supply
- **Nominal voltage**
- **Ripple** ≤ 10 %
- **Nominal current**

#### Inputs (intrinsically safe)
- **Input I**
  - Nominal values
  - Open circuit voltage / short circuit current
  - Switch point / switch hysteresis
  - Input pulse length / pulse interval
  - Lead breakage monitoring
- **Input II**
- **Input III**
- **Input IV**
  - Nominal values

#### Certificate of Conformity
- **Peak Values**: PTB Nr. Ex-81/2065X
- **Other certifications**: see www.pepperl-fuchs.com

#### Allowable circuit values
- **Explosion protection method, category**
- **Ignition protection method, category**
  - IIB / IIC
  - IIa / IIb

#### Inputs (not intrinsically safe)
- **Signal level Logic-1**
- **Signal level Logic-0**
- **Input current**

#### Outputs (not intrinsically safe)
- **Output I, II, IV, V, VII, VIII, X, XI**:
  - Nominal current
  - Signal level Logic-1 / Logic-0
  - Transistor output, active
  - Signal level Logic-1 / Logic-0

#### Transfer characteristics
- **Switch frequency** ≤ 1 kHz

#### Galvanic isolation
- **Input I ... IV / from output I ... XII**
- **Input I ... IV / from power supply**

#### Conformity to standards
- **Per DIN 19234 (NAMUR)**
- **Per DIN IEC 721**

#### Ambient temperature
- **-25 °C ... +70 °C (248 K ... 343 K)**

#### Connection method
- **Coding**
- **Weight** about 300 g