Transformer Isolated Amplifier EG4-OT

Output: Transistors

- 4-Channel
- Control circuit EEx ia IIC
- DC 24 V supply voltage
- Reversible operating mode
- Lead breakage monitoring (LB) may be disabled
- Override input for passive transistor output
- 2 transistor outputs per channel:
  1 passive transistor output: 100 mA
  1 active transistor output: 10 mA

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 lead breakage monitoring.

Notes on connection assignment:
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.

Operating mode z18, z22, z26, z30
Logic-1: no reversal of operating mode from input to output
Logic-0: 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.

Front View

Type A
(dimensions see page 16)
### Technical data

#### Power supply
- **Nominal voltage**: DC 20.4 V ... 27.6 V
- **Ripple**: ≤10 %
  - about 90 mA without output load

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

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

#### Ignition protective method, category
- **Explosion group**
- **Max. external capacitance**
- **Max. external inductance**

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

#### Outputs (not intrinsically safe)
- **Output I, III, V, VII**
  - **Nominal current**
  - **Signal level 1-Signal / 0-Signal**
- **Output II, IV, VI, VIII**
  - **Nominal current**
  - **Max. voltage drop at 100 mA**

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

#### Galvanic isolation
- **Outputs I ... VIII from each other**
- **Outputs I ... VIII from power supply**
- **Inputs I ... IV from output I ... VIII**
- **Inputs I ... IV from power supply**

#### Conformity to standards
- **Input per DIN 19234 (NAMUR)**
- **Climatic conditions per DIN IEC 721**

#### Ambient temperature
- **Range**: -25 °C ... +70 °C (248 K ... 343 K)
- **48-pin plug connector per DIN 41 612, Series 2, Type F; z, b and d provided**
- **Coding**: a3 / c7
- **Weight**: about 300 g