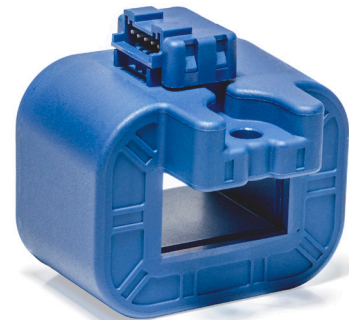


For the electronic measurement of current: DC, AC, pulsed..., with galvanic separation between the primary and the secondary circuit.



### Features

- Open loop multi-range current transducer
- Voltage output
- Single supply +5 V
- Overcurrent detect  $2.93 \times I_{PN}$  (peak value)
- Galvanic separation between primary and secondary circuit
- Low power consumption
- For busbar mounting
- Aperture:  $21.5 \times 13 \text{ mm}$
- Factory calibrated
- Mating JST connector:
  - housing PAP-05V-S
  - contact SPHD-00xT-P0.5.

### Advantages

- Low offset drift
- Over-drivable  $V_{ref}$
- Creepage / clearance  $> 10.5 \text{ mm}$
- Fast response
- Low profile 2 mm pitch connector for 22 to 28 AWG wire.

### Applications

- AC variable speed and servo motor drives
- Static converters for DC motor drives
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Power supplies for welding applications
- Combiner box
- Solar inverter on DC side of the inverter (MPPT).

### Standards

- IEC 61800-2: 2015
- IEC 61800-3: 2004
- IEC 61800-5-1: 2007
- IEC 62109-1: 2010
- UL 508: 2013.

### Application Domain

- Industrial.

## Absolute maximum ratings

| Parameter  | Symbol    | Unit | Value |
|--|-----------|------|-------|
| Supply voltage (not destructive)                 | $U_C$     | V    | 8     |
| Supply voltage (not entering non standard modes) | $U_C$     | V    | 6.5   |
| Primary conductor temperature                    | $T_B$     | °C   | 120   |
| Electrostatic discharge voltage                  | $U_{ESD}$ | kV   | 2     |

Stresses above these ratings may cause permanent damage. Exposure to absolute maximum ratings for extended periods may degrade reliability.

## UL 508: Ratings and assumptions of certification

File # E189713 Volume: 2 Section: 5

### Standards

- CSA C22.2 NO. 14-10 INDUSTRIAL CONTROL EQUIPMENT - Edition 12
- UL 508 STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT - Edition 17

### Ratings

| Parameter                       | Symbol    | Unit    | Value                               |
|---------------------------------|-----------|---------|-------------------------------------|
| Primary involved potential      |           | V AC/DC | 600                                 |
| Max surrounding air temperature | $T_A$     | °C      | 105                                 |
| Primary current                 | $I_P$     | A       | According to series primary current |
| Secondary supply voltage        | $U_C$     | V DC    | 5                                   |
| Output voltage                  | $V_{out}$ | V       | 0 to 5                              |

### Conditions of acceptability

- 1 - These devices have been evaluated for overvoltage category III and for use in pollution degree 2 environment.
- 2 - A suitable enclosure shall be provided in the end-use application.
- 3 - The terminals have not been evaluated for field wiring.
- 5 - Primary terminals shall not be straightened since assembly of housing case depends upon bending of the terminals.
- 6 - Any surface of polymeric housing have not been evaluated as insulating barrier.
- 7 - Low voltage control circuit shall be supplied by an isolating source (such as a transformer, optical isolator, limiting impedance or electro-mechanical relay).

### Marking

Only those products bearing the UR Mark should be considered to be Listed or Recognized and covered under UL's Follow-Up Service. Always look for the Mark on the product.