

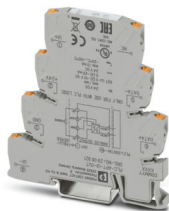
# PLC-APT-UI-OUT - Analog module



2906921

<https://www.phoenixcontact.com/us/products/2906921>

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Analog output module for PLC logic logic modules (Generation 2 only), single-channel, signal type (4 mA ... 20 mA, 0 mA ... 20 mA, 0 V ... 10 V, 2 V ... 10 V) can be configured via DIP switch, Push-in connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2906921       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C424          |
| Product key                          | DK2622        |
| GTIN                                 | 4055626155524 |
| Weight per piece (including packing) | 72.4 g        |
| Weight per piece (excluding packing) | 43 g          |
| Customs tariff number                | 85389099      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                |                       |
|----------------|-----------------------|
| Product type   | Extension module      |
| Product family | PLC logic             |
| Operating mode | 100% operating factor |

#### Insulation characteristics: Air clearances and creepage distances

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

### Electrical properties

#### Air clearances and creepage distances

|                          |        |
|--------------------------|--------|
| Rated insulation voltage | 50 V   |
| Rated surge voltage      | 0.5 kV |

#### Supply

|                                                            |                             |
|------------------------------------------------------------|-----------------------------|
| Rated control circuit supply voltage $U_S$                 | 24 V DC                     |
| Rated control supply voltage range with reference to $U_S$ | 0.8 ... 1.1                 |
| Rated control supply current $I_S$                         | $\leq 28$ mA                |
| Protective circuit                                         | Reverse polarity protection |
|                                                            | Surge protection            |

### Input data

#### Digital input

|                               |             |
|-------------------------------|-------------|
| Rated actuating voltage $U_C$ | 24 V DC     |
| Rated actuating current $I_C$ | $\leq 1$ mA |

### Output data

#### Analog

|                        |                         |
|------------------------|-------------------------|
| Output name            | Analog voltage output   |
| Number of outputs      | 1                       |
| Voltage output signal  | 0 V ... 10 V            |
|                        | 2 V ... 10 V            |
| Maximum output voltage | 12.3 V                  |
| Ripple                 | $< 20$ mV <sub>PP</sub> |

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|                                 |                              |
|---------------------------------|------------------------------|
| Load/output load voltage output | 10 kΩ                        |
| Surge voltage protection        | > 33 V                       |
| Maximum transmission error      | 1 %                          |
| Resolution                      | 10 bit (scaled to 0 to 1000) |
| Protective circuit              | Surge protection             |

## Analog

|                                 |                                  |
|---------------------------------|----------------------------------|
| Output name                     | Analog output for current        |
| Number of outputs               | 1                                |
| Current output signal           | 0 mA ... 20 mA<br>4 mA ... 20 mA |
| Maximum output current          | 24.6 mA                          |
| Load/output load current output | 500 Ω (20 mA)                    |
| Surge voltage protection        | > 33 V                           |
| Maximum transmission error      | 1 %                              |
| Resolution                      | 10 bit                           |
| Protective circuit              | Surge protection                 |

## Connection data

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection method                | Push-in connection                           |
| Stripping length                 | 10 mm                                        |
| Number of connections            | 4                                            |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 26 ... 14                                    |

## Signaling

|                           |           |
|---------------------------|-----------|
| Operating voltage display | Green LED |
| Error indication          | Red LED   |

## Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 94 mm  |

## Material specifications

|       |                 |
|-------|-----------------|
| Color | gray (RAL 7042) |
|-------|-----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Approvals

# PLC-APT-UI-OUT - Analog module



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## CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

## UL, USA/Canada

|                |               |
|----------------|---------------|
| Identification | UL 508 Listed |
|----------------|---------------|

## Standards and regulations

### Air clearances and creepage distances

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|-----------------------|--------------|

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

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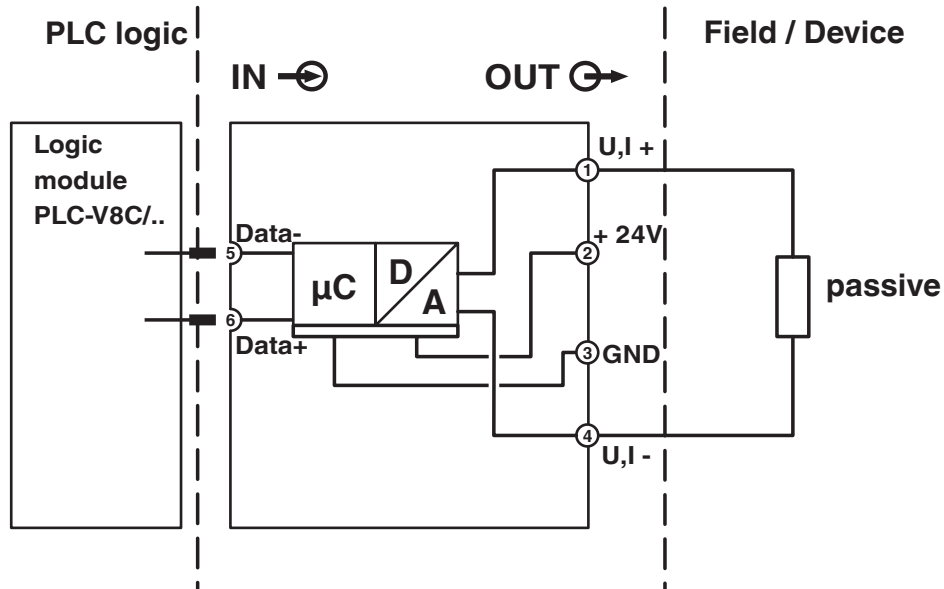
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## Drawings

Block diagram



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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906921>



**EAC**

Approval ID: RU\*DE.\*08.B.01517/19



**UL Listed**

Approval ID: E238705



**cUL Listed**

Approval ID: E238705

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242201 |
| ECLASS-15.0 | 27242201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001420 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |              |
|-----------------------------------------|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 43a911b6-5134-4729-9bb8-3a0d6d69dde0 |

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