

# FA MCR-FDS-I-I-OLP - Digital display



2908782

<https://www.phoenixcontact.com/us/products/2908782>

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Output loop-powered process indicator in field housing. HART



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2908782       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C401          |
| Product key                          | DK1141        |
| GTIN                                 | 4055626357096 |
| Weight per piece (including packing) | 816 g         |
| Weight per piece (excluding packing) | 800.2 g       |
| Customs tariff number                | 90328900      |
| Country of origin                    | DE            |

## Technical data

### Product properties

|                |                  |
|----------------|------------------|
| Product type   | Digital displays |
| Product family | Field Analog     |
| Configuration  | Keyboard         |
|                | Software         |

### System properties

#### Functionality

|               |          |
|---------------|----------|
| Configuration | Keyboard |
|               | Software |

### Electrical properties

|                                 |                        |
|---------------------------------|------------------------|
| Maximum temperature coefficient | < 0.02 %/K             |
| Maximum transmission error      | 0.1 % (of final value) |

#### Supply

|                      |                                            |
|----------------------|--------------------------------------------|
| Supply voltage range | loop-powered, no external supply necessary |
|----------------------|--------------------------------------------|

### Input data

#### Signal: Current

|                           |                                 |
|---------------------------|---------------------------------|
| Current input signal      | 4 mA ... 20 mA                  |
| Max. current input signal | 200 mA                          |
| Voltage drop              | ≤ 1 V                           |
|                           | ≤ 3.9 V (with display lighting) |
| Input impedance           | ≈ $\infty$ Ω                    |

#### Signal: HART

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Current input signal | up to 4x HART process variables                   |
| Voltage drop         | ≤ 1.9 V                                           |
|                      | ≤ 4.8 V (with display lighting)                   |
| Input impedance      | $R_x = 40 \text{ } \Omega / C_x = 2.3 \text{ nF}$ |

### Output data

#### Signal: Current

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| Current output signal         | 4 mA ... 20 mA                                                      |
| Number of positions displayed | 5                                                                   |
| Display                       | 7-segment LC display, with backlight, dot matrix for text/bar graph |
| Display value                 | scalable                                                            |

#### Signal: HART

|                       |                                 |
|-----------------------|---------------------------------|
| Current output signal | up to 4x HART process variables |
|-----------------------|---------------------------------|

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## Connection data

|                                  |                      |
|----------------------------------|----------------------|
| Connection method                | Push-in connection   |
| Stripping length                 | 9 mm                 |
| Conductor cross-section rigid    | 0.14 mm² ... 1.5 mm² |
| Conductor cross-section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross-section AWG      | 26 ... 16            |

## Interfaces

### Data communication (bypass)

|                     |      |
|---------------------|------|
| Protocols supported | HART |
|---------------------|------|

## Dimensions

|        |         |
|--------|---------|
| Width  | 131 mm  |
| Height | 81.5 mm |
| Depth  | 55.5 mm |

## Material specifications

|                  |                       |
|------------------|-----------------------|
| Color            | light gray (RAL 7035) |
| Housing material | Aluminum              |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Degree of protection                    | IP66/IP67                          |
|                                         | NEMA 4X                            |
| Ambient temperature (operation)         | -40 °C ... 60 °C                   |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                   |
| Altitude                                | < 5000 m (Above sea level)         |
| Climatic class                          | according to IEC 60654-1, class B2 |

## Approvals

### CE

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

### UL, USA/Canada

|                |                 |
|----------------|-----------------|
| Identification | UL 61010 Listed |
|----------------|-----------------|

### Shipbuilding approval

|             |                   |
|-------------|-------------------|
| Certificate | DNV GL TAA000013C |
|-------------|-------------------|

### Shipbuilding data

|             |   |
|-------------|---|
| Temperature | B |
| Humidity    | B |
| Vibration   | A |
| EMC         | B |

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|           |                                                                                         |
|-----------|-----------------------------------------------------------------------------------------|
| Enclosure | Required protection according to the Rules shall be provided upon installation on board |
|-----------|-----------------------------------------------------------------------------------------|

## EMC data

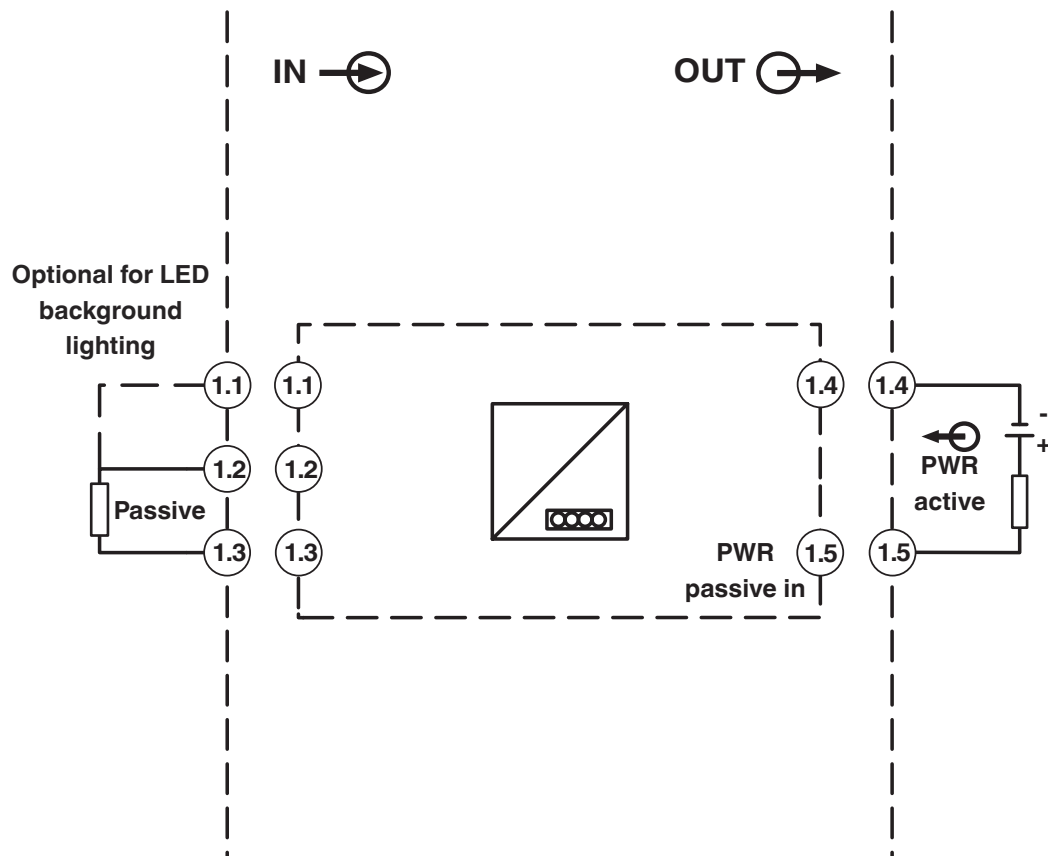
|                       |                    |
|-----------------------|--------------------|
| Noise emission        |                    |
| Standards/regulations | IEC 61326, class B |

## Mounting

|                   |                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------|
| Mounting type     | Panel mounting                                                                          |
|                   | Tube mounting                                                                           |
| Mounting position | Max. viewing angle range +/- 45° from the centre line of the display in every direction |

## Drawings

Block diagram



FA MCR-FDS-I-I-OLP

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2908782>



**EAC**

Approval ID: RU\*DE.\*08.B.01522/19



**UL Listed**

Approval ID: E330267



**cUL Listed**

Approval ID: FILE E 330267

**DNV**

Approval ID: TAA000013C



**CSA**

Approval ID: 70106894



**FM approved**

Approval ID: FM16US0464



**CSAus**

Approval ID: 70106894

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210301 |
| ECLASS-15.0 | 27210301 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC011349 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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)                                                                                                                                                                                                              |