FA MCR-DS-I-I-OLP - Digital display

2908781

https://www.phoenixcontact.com/us/products/2908781

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Output loop-powered process indicator for installation in the control cabinet. HART



Commercial data

Item number	2908781
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C401
Product key	DK1141
GTIN	4055626357089
Weight per piece (including packing)	339.3 g
Weight per piece (excluding packing)	332 g
Customs tariff number	90328900
Country of origin	DE

Technical data

Product properties

Product type	Digital displays
Product family	Field Analog
No. of channels	1
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	≈ ⏚ 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 Ω/C_x = 2.3 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

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	96 mm
Height	48 mm
Depth	41.5 mm

Material specifications

Color	light gray (RAL 7035)
Housing material	Aluminum / polycarbonate

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 (Front)
	IP20 (On the rear)
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 5000 m
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
Enclosure	Required protection according to the Rules shall be provided upon installation on board

EMC data

Noise emission

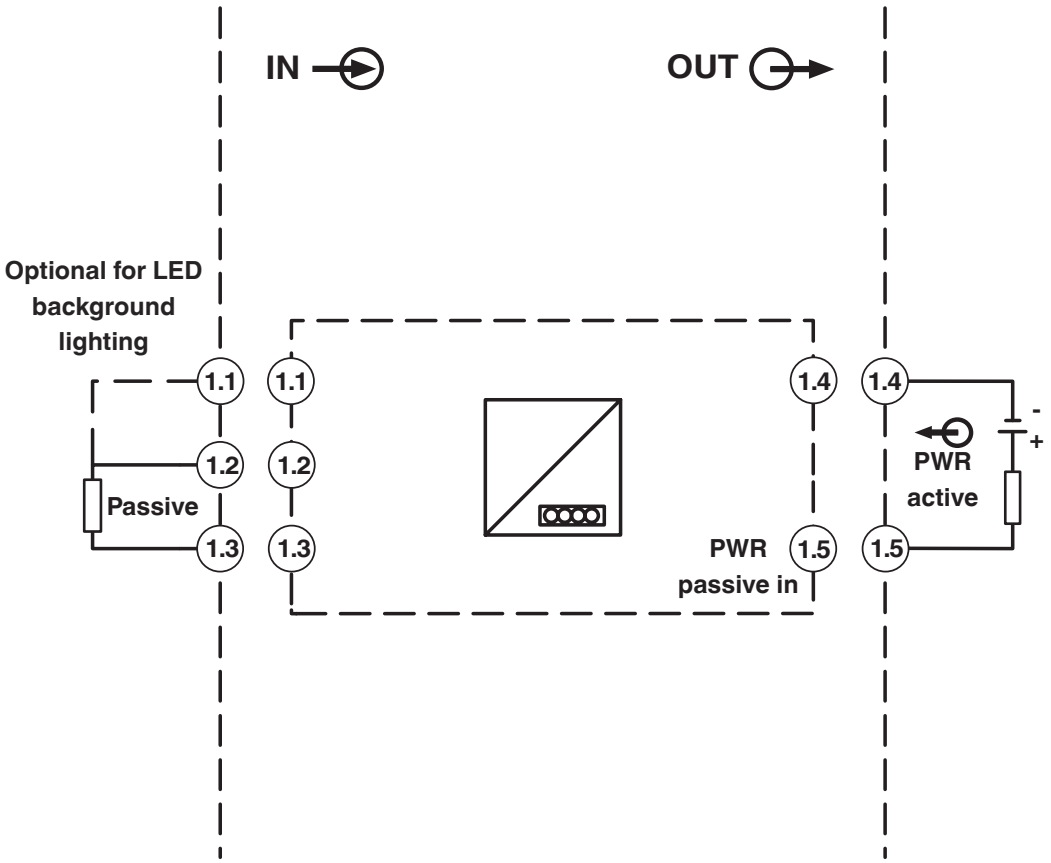
Standards/regulations	IEC 61326, class B

Mounting

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

Drawings

Block diagram



Block diagram FA MCR-DS-I-I-OLP

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2908781

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

Classifications

ECLASS

ECLASS-13.0	27210301
ECLASS-15.0	27210301

ETIM

ETIM 10.0	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)

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