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

2908801

https://www.phoenixcontact.com/us/products/2908801

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Ex i, Output loop-powered process indicator in field housing. HART

Commercial data

Item number	2908801
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C430
Product key	DK1241
GTIN	4055626364216
Weight per piece (including packing)	835.1 g
Weight per piece (excluding packing)	821.5 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	≈ ⏚ 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

Ex data

Ex installation (EPL)	Gb
	Div. 1

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

ATEX

Identification	Ⓔx II 2G Ex ib IIC T6 Gb
Certificate	PTB 17 ATEX 2025 X

IECEx

Identification	Ex ib IIC T6 Gb

Certificate	IECEx PTB 16.0033X

CCC / China-Ex

Identification	Ex ib IIC T6 Gb
Certificate	2021322309004298

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

Standards and regulations

GB Standard

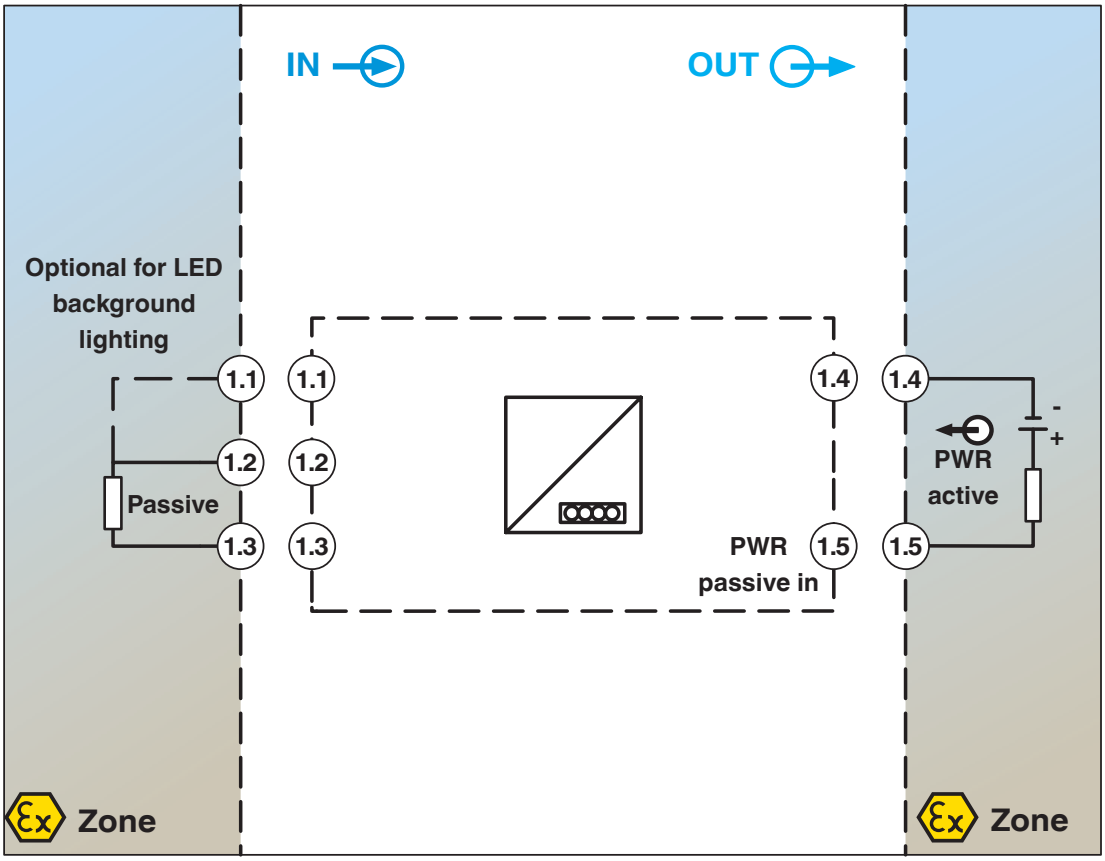
Standards/regulations	GB 3836.1
	GB 3836.4

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-EX-FDS-I-I-OLP

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)

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