

Head-mounted transducer - FA MCR-EX-HT-TS-I-OLP-PT - 2908743

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The output loop-powered head transmitter transmits up to two sensor signals from RTD and TC sensors as well as from resistance-type sensors and voltage sensors via HART communication or 4 ... 20 mA, configurable. SIL 2/3, intrinsic safety.



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626347790
Weight per Piece (excluding packing)	197.100 g
Custom tariff number	85437090
Country of origin	Germany

Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
	-40 °C ... 70 °C (SIL active)
Ambient temperature (storage/transport)	-50 °C ... 100 °C
Maximum altitude	≤ 4000 m (Above sea level)
Permissible humidity (operation)	5 % ... 95 % (condensation permitted)
Degree of protection	IP33 (upon installation in field housing IP66/67, NEMA 4X)

Input data

Sensor types (RTD) that can be used	Pt, Ni, Cu sensors: 2, 3, 4-wire
Sensor types that can be used (TC)	A, B, C, D, E, J, K, L, N, R, S, T, U
Linear resistance measuring range	10 Ω ... 2000 Ω (Minimum measuring span: 10 Ω)

Output data

Current output signal	4 mA ... 20 mA (HART)
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Technical data

Output data

	20 mA ... 4 mA (HART)
Max. output current	23 mA

Power supply

Supply voltage range	11 V ... 42 V (Standard)
	11 V ... 32 V (SIL active)
	11 V ... 30 V (Ex)

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16

General

Overvoltage category	II
Degree of pollution	2
Assembly instructions	Installation in connection head according to DIN 43729 form B
Conformance	CE-compliant
ATEX	# II 1G Ex ia IIC T6...T4 Ga
	# II 2G Ex ia IIC T6...T4 Gb
IECEX	Ex ia IIC T6...T4 Ga
	Ex ia IIC T6...T4 Gb
UL, USA/Canada	UL 61010 Recognized
FM approval	NI / Class I / Div. 1, 2 / Group ABCD T6/T5/T4
CSA	Exia / Class I / Group ABCD T6/T5/T4

Standards and Regulations

Conformance	CE-compliant
ATEX	# II 1G Ex ia IIC T6...T4 Ga
	# II 2G Ex ia IIC T6...T4 Gb
IECEX	Ex ia IIC T6...T4 Ga
	Ex ia IIC T6...T4 Gb
UL, USA/Canada	UL 61010 Recognized
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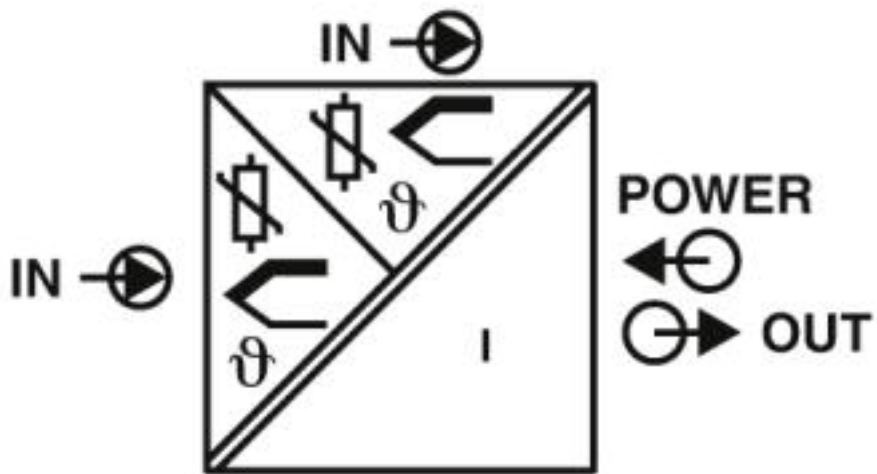
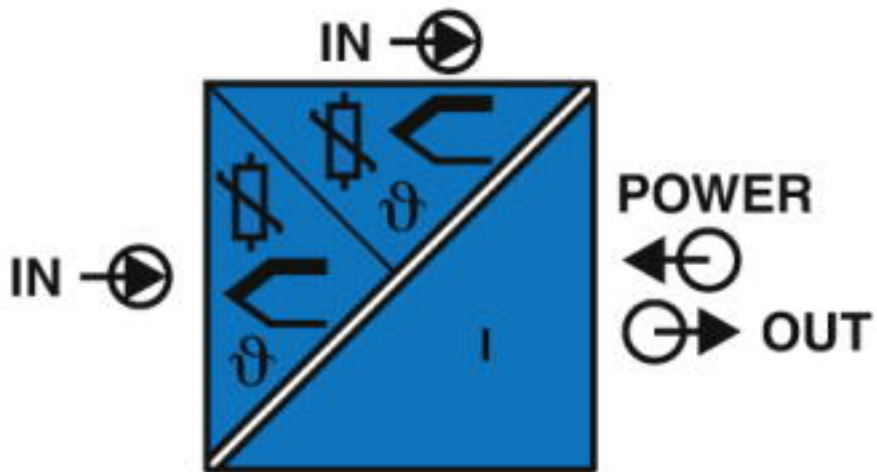
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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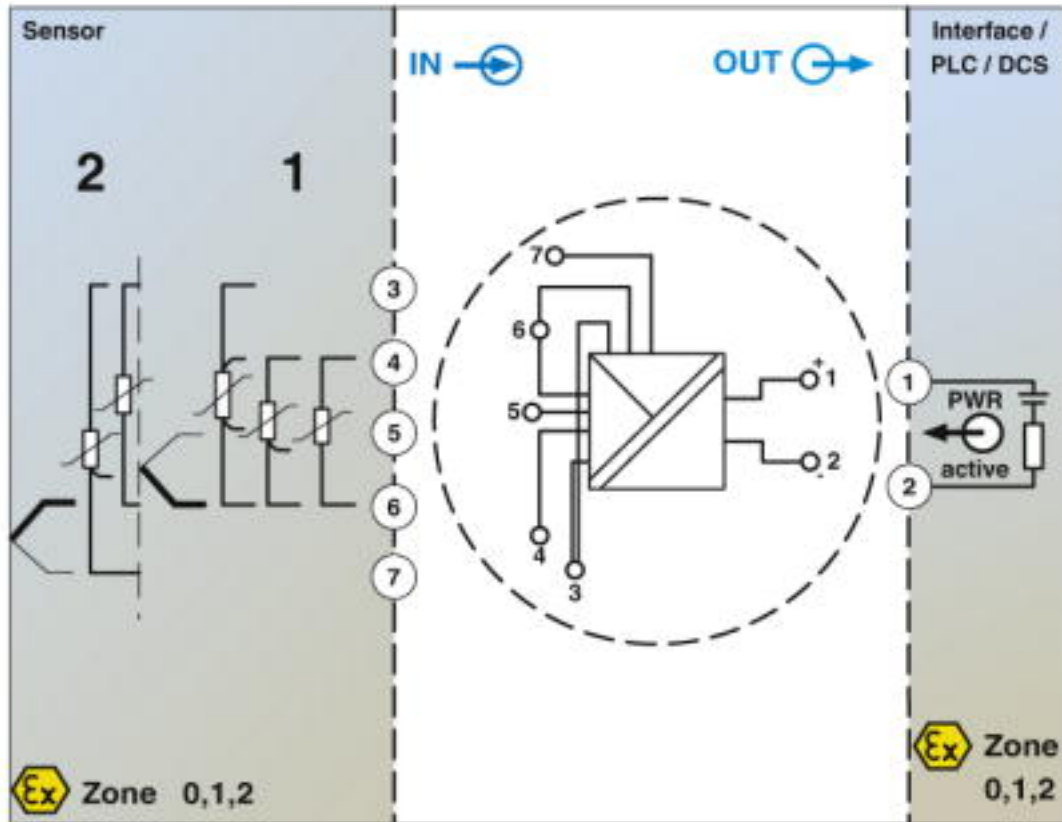
Drawings

Pictogram



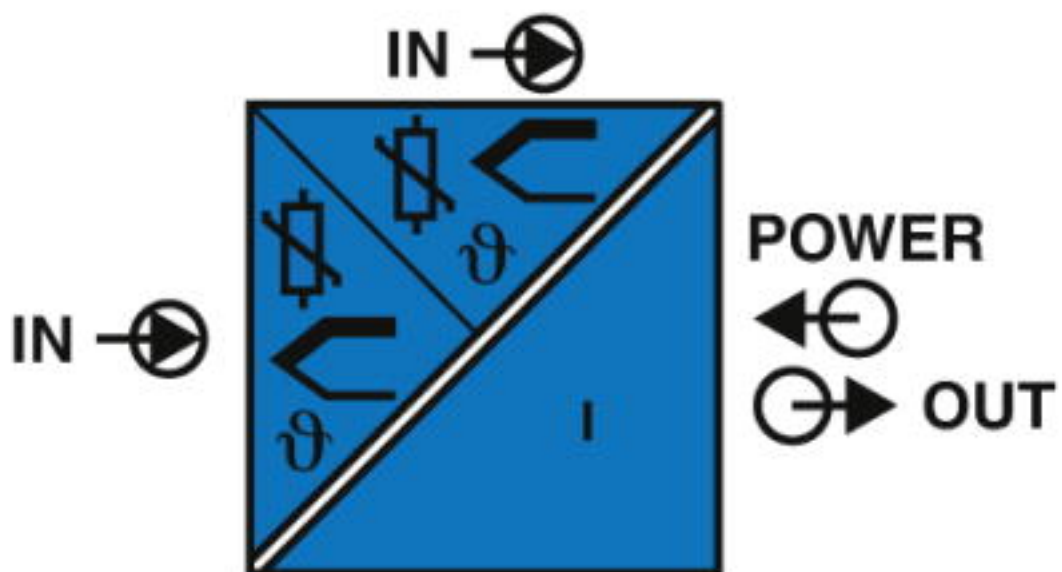
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Block diagram



Block diagram for FA MCR-EX-HT-TS-I-OLP-PT

Pictogram



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Classifications

eCl@ss

eCl@ss 4.0	27200206
eCl@ss 4.1	27200206
eCl@ss 5.0	27200206
eCl@ss 5.1	27200206
eCl@ss 6.0	27200206
eCl@ss 7.0	27200206
eCl@ss 8.0	27200206
eCl@ss 9.0	27210129

ETIM

ETIM 2.0	EC001426
ETIM 3.0	EC001426
ETIM 4.0	EC001426
ETIM 5.0	EC001446
ETIM 6.0	EC002919
ETIM 7.0	EC002919

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / Functional Safety / EAC / cULus Recognized

Ex Approvals

IECEx / FM approved / CSA / ATEX

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 198586
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 198586
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Functional Safety	http://www.tuev-sued.de	Z10 17 09 29429 006
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Approvals



Accessories

Accessories

Digital displays

Display - FA MCR-HT-D - 2908735



Display unit for plugging directly into the FA MCR-... head transmitter

Housing

Electronic housing - FA MCR-HT-FH - 2908736



Field housing for the installation of head transmitters with or without display unit. For direct connection to the process.

Mounting material

Mounting kit - FA MCR-HT-FH-WM - 2908737



Wall fastening for FA MCR-HT-FH field housing

Mounting rail adapter

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Accessories

Adapter - MCR-DIN-RAIL-ADAPTER HT - 2864671



DIN rail adapter for head-mounted transducers. Suitable for 35 mm DIN rails in accordance with EN 60715.

Programming adapter

Programming adapter - MCR-PAC-T-USB - 2309000



Programming adapter with USB and T port interface, 2.4 m for programming FA MCR-..., MCR-...-LP-..., and MCR-...-HT-... modules

Programming cable

Cable adapter - GW HART USB MODEM - 1003824



USB HART modem cable for communication between a PC and HART devices, cable length: 1m.