

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



2908742

<https://www.phoenixcontact.com/us/products/2908742>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 and via HART_ communication or 4 ... 20 mA, configurable. SIL2/3

Commercial data

Item number	2908742
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1142
GTIN	4055626347783
Weight per piece (including packing)	196.6 g
Weight per piece (excluding packing)	186.6 g
Customs tariff number	85437090
Country of origin	DE

2908742

<https://www.phoenixcontact.com/us/products/2908742>

Technical data

Product properties

Product type	Temperature transmitter
Product family	Field Analog

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

Electrical isolation between input and output	yes
Step response (0–99%)	0.8 s (TC)

Electrical isolation Input/output

Test voltage	2 kV AC
--------------	---------

Supply

Supply voltage range	loop-powered, no external supply necessary
	11 V ... 42 V (Standard)
	11 V ... 32 V (SIL active)

Input data

Measurement

Input voltage range	-20 mV ... 100 mV
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
Temperature measuring range	-250 °C ... 2500 °C (Range depending on the sensor type)
	-200 °C ... 850 °C (Pt 100)
Temperature measuring range	> 10 K (RTD)
	> 50 K (TC)
Linear resistance measuring range	10 Ω ... 2000 Ω (Minimum measuring span: 10 Ω)

Output data

Signal

Configurable/programmable	no
Current output signal	4 mA ... 20 mA (HART)
	20 mA ... 4 mA (HART)
Max. current output signal	23 mA
Load	($U_B - 11$ V) / 0.023 A
HART coding	FSK ± 0.5 mA
HART version	7
Transmission speed	1200 Baud
Mains frequency filter	50/60 Hz

Communication resistance	≥ 250 Ω
Switch-on delay	approx. 10 s (HART)
	approx. 28 s (Measured value)

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section rigid	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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP33 (upon installation in field housing IP66/67, NEMA 4X)
Ambient temperature (operation)	-40 °C ... 85 °C
	-40 °C ... 70 °C (SIL active)
Ambient temperature (storage/transport)	-50 °C ... 100 °C
Altitude	≤ 4000 m (Above sea level)
Climatic class	C1
Permissible humidity (operation)	5 % ... 95 % (condensation permitted)

Approvals

CE

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

ATEX

Identification	⊕ II 3G Ex nA IIC T6...T4 Gc
----------------	------------------------------

UL, USA/Canada

Identification	UL 61010 Recognized
----------------	---------------------

FM

Identification	NI / Class I / Div. 1, 2 / Group ABCD T6/T5/T4
----------------	--

CSA

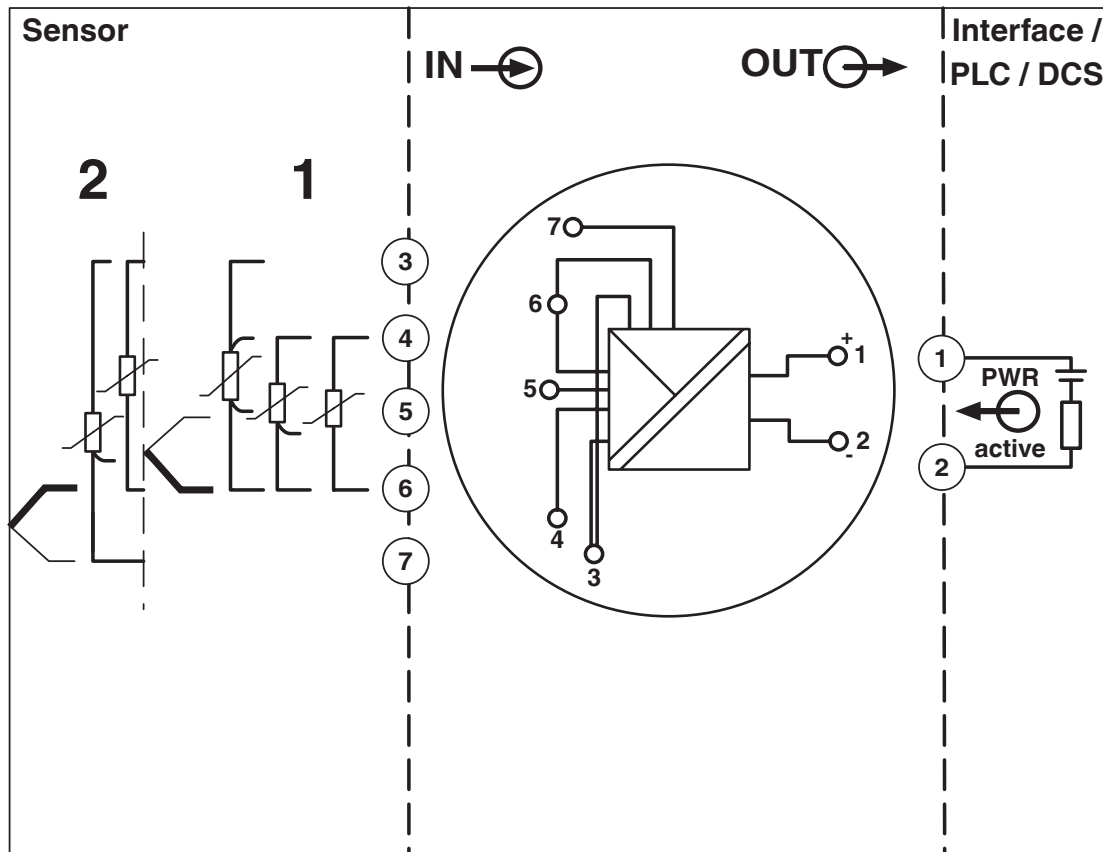
Identification	NI, Class I, Div. 2, Groups A, B, C, D
----------------	--

Mounting

Assembly note	Installation in connecting head B in accordance with DIN EN 50446
---------------	---

Drawings

Block diagram



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

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



2908742

<https://www.phoenixcontact.com/us/products/2908742>

Classifications

UNSPSC

UNSPSC 21.0	41112105
-------------	----------

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



2908742

<https://www.phoenixcontact.com/us/products/2908742>

Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com