

Technical data sheet

Interface Technology · LCIS analog/analog converter

Input: 0–10 V / 0–20 mA / 4–20 mA

Output: 0–10 kHz

Insulation: 4 kV, 3-way isolation, wide range input



Identification

Type	LCIS-WP-WAF-0512-175-S
Part No.	750512.0000

Product version

Hardware revision	1.0
Software version	1.1
Datasheet version	01

Input

Input signal	0–10 V, 0–20 mA, 4–20 mA, adjustable via DIP switch S1
Input variable	Analogue signals
Galvanic isolation I/O	3-way isolation
Zero /Span	Production comparison
Input resistance	>330 k Ω @ 0–10 V, <100 Ω @ 0–20 mA, 4–20 mA

Output

Output signal	0–50 Hz, 0–100 Hz, 0–1 kHz, 0–10 kHz adjustable via DIP switch S1
Signal level	DC 24 V (DIN EN 61131-2) Type 1: ≥ 15 V (@ 2 mA) Type 2: ≥ 11 V (@ 6 mA)

Operating data

Accuracy	0.1 % FSR @ 23 °C
Linearity error	0.05 % FSR

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Rise time (10-90%)	frequency-dependent
Build-up time (Accuracy 1%)	frequency-dependent
Temperature coefficient	<150 ppm / K FSR
Critical frequency	30 Hz @ 3 dB
Transmission frequency	frequency-dependent

General

Rated voltage U_N	AC/DC 24–240 V
Current Consumption	22 mA
Status indication	LED green
Input/output protection	Overvoltage, current input with PTC fuse, short circuit-proof output
Insulation voltage input / output	4.0 kV _{eff}
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	RAL 7012 basalt grey
Mounting	DIN rail mountable TS35 (EN 60715)
Degree of protection	IP20
Installation position	Any
Connection type	Screwed terminal single wire 0.25 mm ² – 2.5 mm ² / AWG 24–14 fine stranded wire with ferrule 0.25 mm ² – 1.5 mm ² / AWG 24–16
Strip length	6 mm
Dimensions (w × h × d)	6.2 mm × 93.0 mm × 73.0 mm
Weight/unit	0.058 kg
PU (units)	1

General ambient conditions

Operation temperature range	-25 °C ... +60 °C
Storage temperature range	-40 °C ... +80 °C
Relative air humidity	20 – 90 % RH, not condensing
Vibration resistance	0.7 g acc. to EN 60068-2-6

Failure Rate Prediction (MTBF)

Standards	Electronic components – Reliability – Reference conditions for failure rates and stress models for conversion: EN/IEC 61709 Failure Rates of Components – Expected values: SN 29500
Failure rate at +45 °C	724 fit
Failure rate at +45 °C	1381278 h 1 fit equals one failure per 10 ⁹ component hours
Comments	The indicated temperature is the mean component ambient temperature. The results are valid under following conditions: Automotive environment or industrial areas without extreme dust levels and harmful substances Continuous operation 8760 h per year

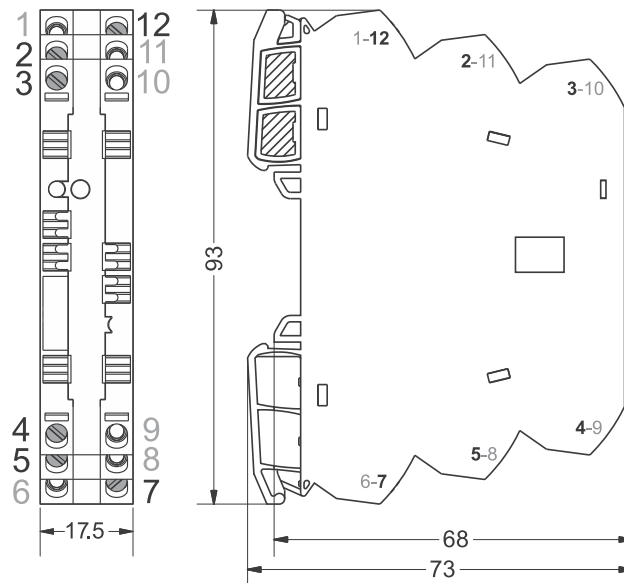
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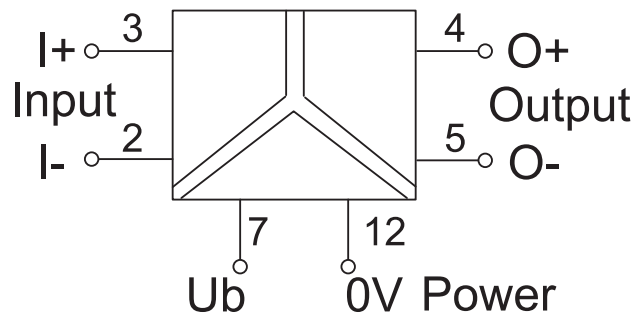
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E135145) DNV (TAA000024Y)
Standards	EN 60947-1 EN 60947-5-1 EN 61000-6-2 EN 61000-6-4 UL 508 DNV-CG-0339

Dimensions



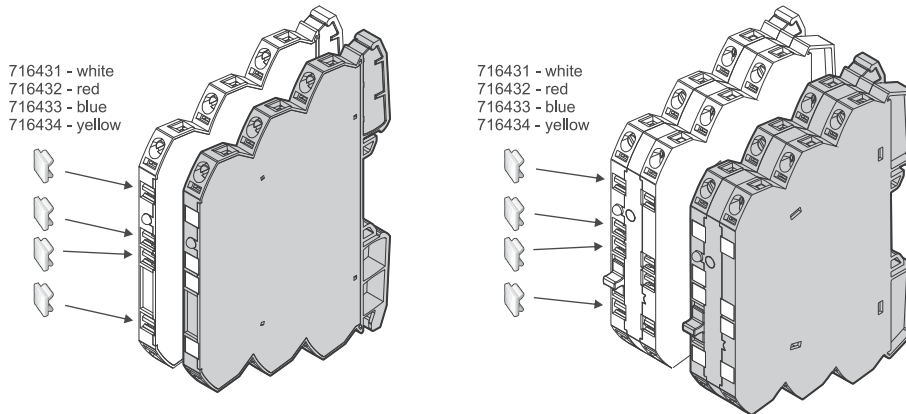
PIN assignment



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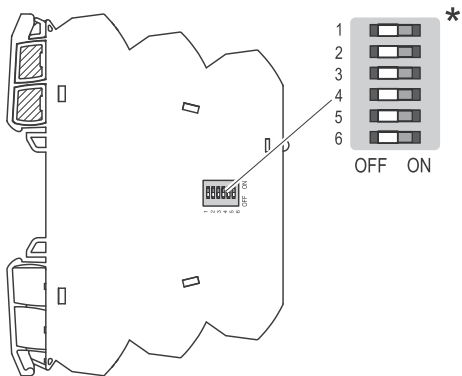
Use



Use

DE DIP-Schalterstellungen EN DIP switch positions FR Positions des interrupteurs DIP

DE HINWEIS: Die Schalter dürfen während des Betriebs nicht umgeschaltet werden. Der Wandler benötigt einen Neustart.
EN NOTICE: The switches must not be switched during operation. The converter requires a restart.
FR AVIS: Les interrupteurs ne doivent pas être actionnés pendant le fonctionnement. Le convertisseur nécessite un redémarrage.



* DE: Auslieferungszustand (Werkseinstellung): 0-Einstellung/ alle Schalter sind auf OFF gestellt.
Je nach Art des Wandlers ist dann bereits ein bestimmter Bereich voreingestellt.

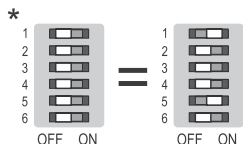
* EN: Delivery state (factory setting): 0 setting/ all switches are set to OFF.
Depending on the type of transducer, a certain range is then already preset.

* FR: État à la livraison (réglage d'usine) : réglage 0/ tous les interrupteurs sont sur OFF.
Selon le type de transducteur, une certaine plage est alors déjà prédéfinie.

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S1	Input	1	2	3	4
●→Switch On					
0- 10V*		●			
0-20mA		●			
4-20mA		●	●		

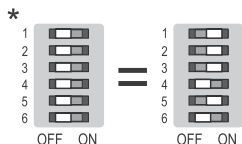
S1	Output	5	6
●→Switch On			
0- 10V*		●	
0-20mA		●	
4-20mA		●	●



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S1	Input	1	2	3	4
●→Switch On					
0- 60 mV		●			
0- 100 mV		●			
0- 300 mV		●			
0- 500 mV		●	●		
0- 1 V		●	●		
0- 2 V		●	●		
0- 5 V		●	●	●	
0- 10 V*		●	●	●	
2- 10 V		●	●	●	●
0- 20 V		●	●	●	●
0- 5 mA		●	●	●	●
0- 10 mA		●	●	●	●
± 5 mA		●	●	●	●
± 20 mA		●	●	●	●
0- 20 mA		●	●	●	●
4- 20 mA		●	●	●	●

S1	Output	5	6
●→Switch On			
0- 10 V*		●	
0- 20 mA		●	
4- 20 mA		●	●



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S1	Input	1	2	3	4
●→Switch On					
0- 10 V*		●			
0- 20 mA		●			
4- 20 mA		●	●		

S1	Output	5	6
●→Switch On			
0- 50 Hz*		●	
0- 100 Hz		●	
0- 1000 Hz		●	●
0- 10000 Hz		●	●



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Range adjustment

S1 ●→Switch On	Input			
	1	2	3	4
0–10 V*	●			
0–20 mA		●		
4–20 mA	●	●		

S1 ●→Switch On	Output	
	5	6
0–50 Hz*		
0–100 Hz	●	
0–1000 Hz		●
0–10000 Hz	●	●

