

## Technical data sheet

Interface Technology · LCIS analog/analog converter

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**Input: 0–10 V / 0–20 mA / 4–20 mA**

**Output: 0–10 kHz**

**Insulation: 4 kV, 3-way isolation, Wide range input**



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### Identification

Type	LCIS-WP-WAF-1512-175-PI
Part No.	<a href="#">751512.0000</a>

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### Product version

Hardware revision	1.0
Software version	1.1
Datasheet version	01

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### 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 kΩ @ 0–10 V, <100 Ω @ 0–20 mA, 4–20 mA

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### 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)

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### Operating data

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

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Part No. [751512.0000](#) • Datasheet version: 01

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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

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#### General

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Rated voltage $U_N$	AC/DC 24–240 V
Current Consumption	17 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 <sub>eff</sub>
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	Push-In single wire 0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> / AWG 24–14 fine stranded wire with ferrule 0.25 mm <sup>2</sup> – 1.5 mm <sup>2</sup> / AWG 24–16
Strip length	8 mm
Dimensions (w × h × d)	6.2 mm × 93.0 mm × 73.0 mm
Weight/unit	0.058 kg
PU (units)	1

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#### General ambient conditions

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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

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#### Failure Rate Prediction (MTBF)

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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 <sup>9</sup> 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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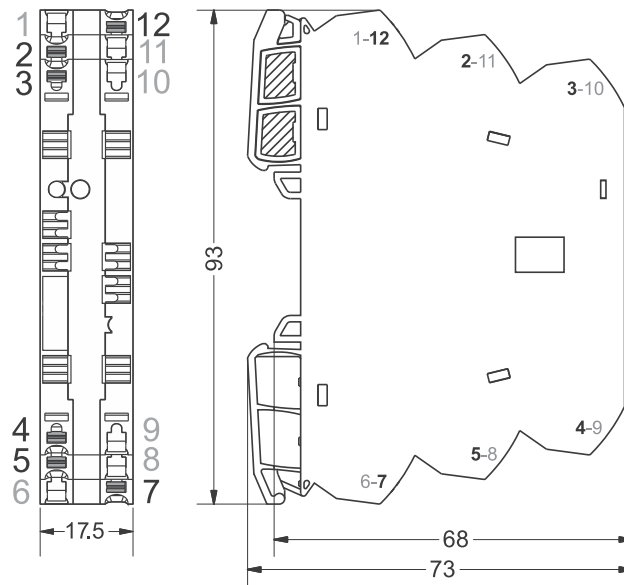
# Technical data sheet

## Interface Technology · LCIS analog/analog converter

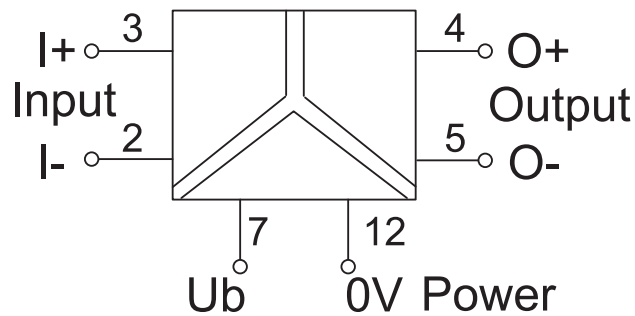
### Certifications/Standards

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



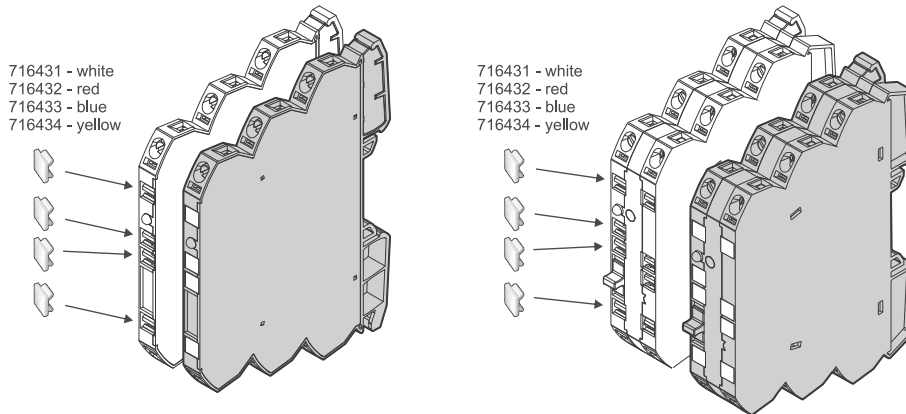
### PIN assignment



# Technical data sheet

## Interface Technology · LCIS analog/analog converter

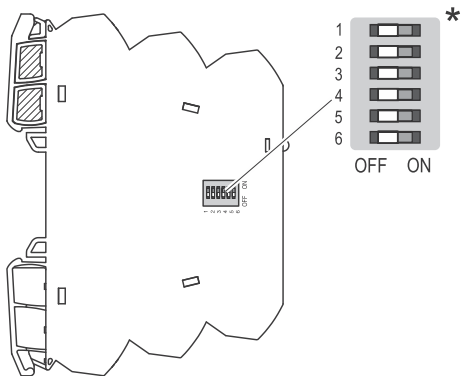
### Use



### 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.

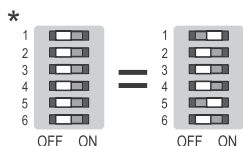
\* EN: Delivery state (factory setting): 0 setting/ all switches are set to OFF.  
 Depending on the type of transducer, a certain range is then already preset.

\* 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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 751510.0000  
 751518.0000  
 751519.0000  
 750518.0000  
 750519.0000

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

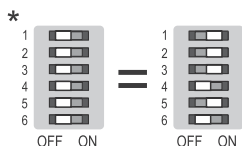
S1	Output	5	6
●→Switch On			
0- 10V*		●	
0-20mA		●	
4-20mA		●	●



750516.0000  
 750517.0000  
 751516.0000  
 751517.0000

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		●	●	●	●

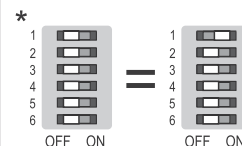
S1	Output	5	6
●→Switch On			
0- 10 V*		●	
0- 20 mA		●	
4- 20 mA		●	●



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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	●	●

