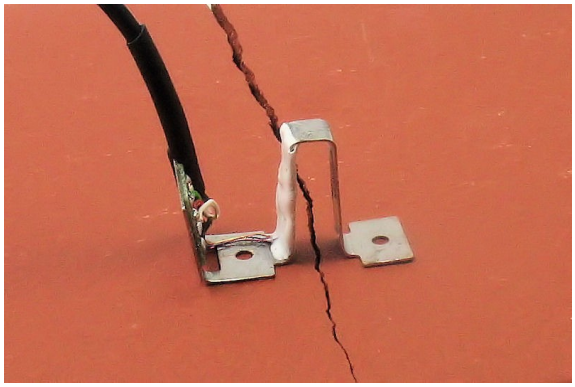
Displacement Sensor CS05 31V

Item number: 4136



Crack propagation sensor in ultraminiature design. Applications: crack monitoring in listed buildings, monitoring of welding seams of machines, measurement of displacement and deformation on containers, tanks and components.
Due to the small weight the crack propagation sensor CS05 is suitable for deformation measurements with crash tests.

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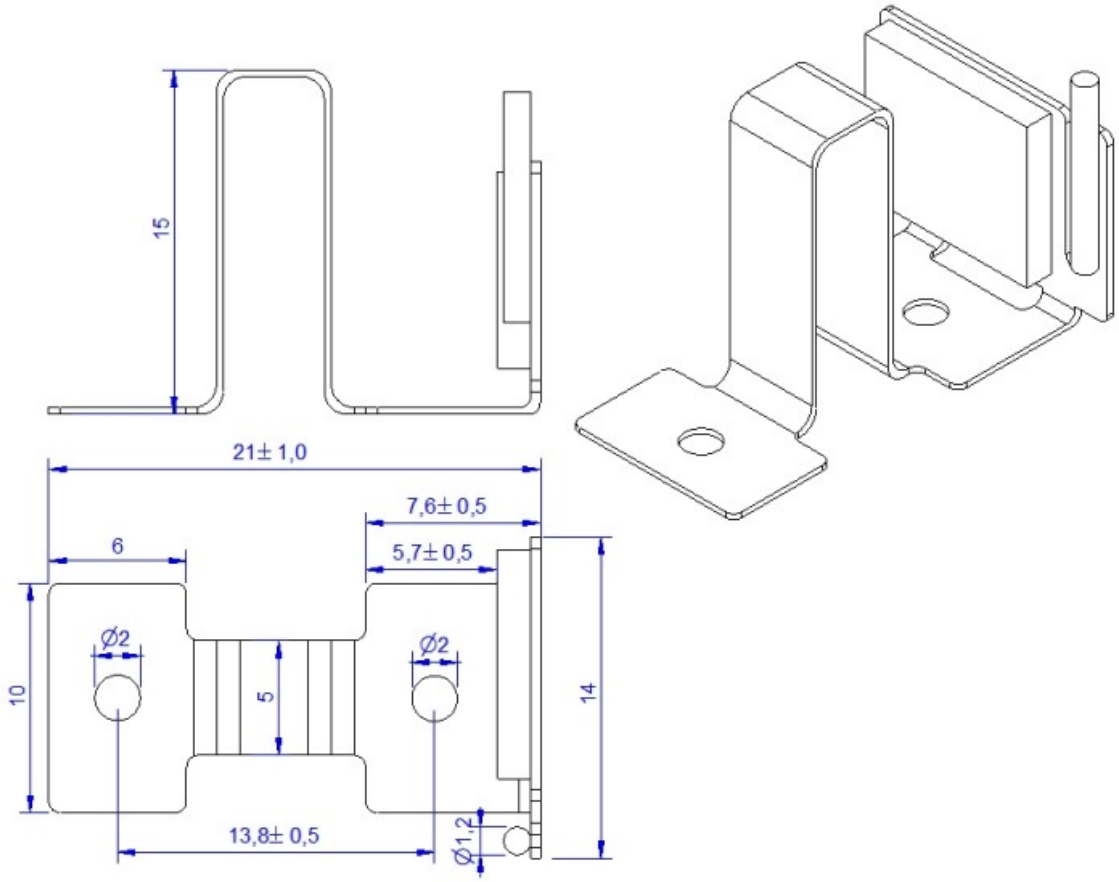
Stand: 15.08.2024

Technical Drawing



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Technical Data

Basic Data		Unit
Typ	Wegsensor	
Nennweg	0.5	
Gebrauchsweg	1	
Maximalweg	1.5	
Material	Stainless steel	
Abmessung	21mm x 14mm x 15mm	

Electrical Data		Unit
Input resistance	350	Ohm
Tolerance input resistance	10	±
Output resistance	350	Ohm
Tolerance output resistance	10	±
Insulation resistance	5x10^9	Ohm
Rated range of excitation voltage from	2.5	V
Rated range of excitation voltage to	5	V
Operating range of excitation voltage from	1	V
Operating range of excitation voltage to	5	V
Zero signal	0.5	mV/V
Rated output	1	mV/V / FS

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Accuracy Data		Unit
Relative linearity error	1	%Fn
Relative zero signal hysteresis	1	%Fn
Temperature effect on zero signal	0.5	%Fn/K
Temperature effect on characteristic value	0.05	%Sn/K
Relative creep	0.05	%Fn

Environmental Data		Unit
Rated temperature range from	10	°C
Rated temperature range to	30	°C
Operating temperature range from	0	°C
Operating temperature range to	50	°C
Storage temperature range from	0	°C
Storage temperature range to	50	°C

Pin assignment

Channel	Symbol	Description	Wire color	PIN
	+Us	positive bridge supply	red	
	-Us	negative bridge supply	black	
	+Ud	positive bridge output	green	
	-Ud	negative bridge output	white	

Screen - transparent. Pressure load : positive output signal

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