



Read head

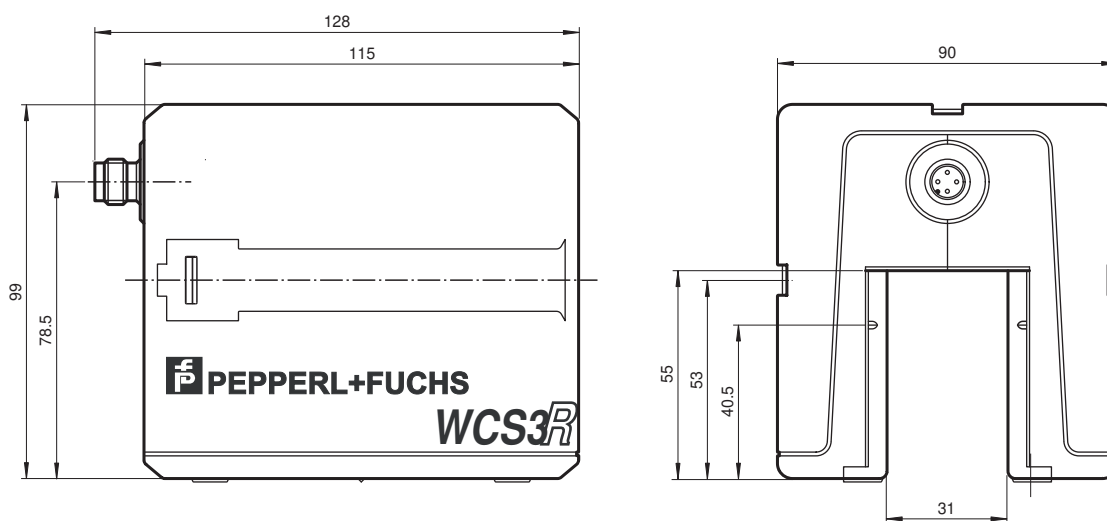
WCS3R-LS227-Y223006

- RS-485 interface
- Non-contact, absolute position encoder
- Automatic detection of dirt accumulation
- Output of position and speed

Read head, RS-485 interface, with RS-485 termination resistor



Dimensions



Release date: 2023-06-26 Date of issue: 2023-06-27 Filename: 223006_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

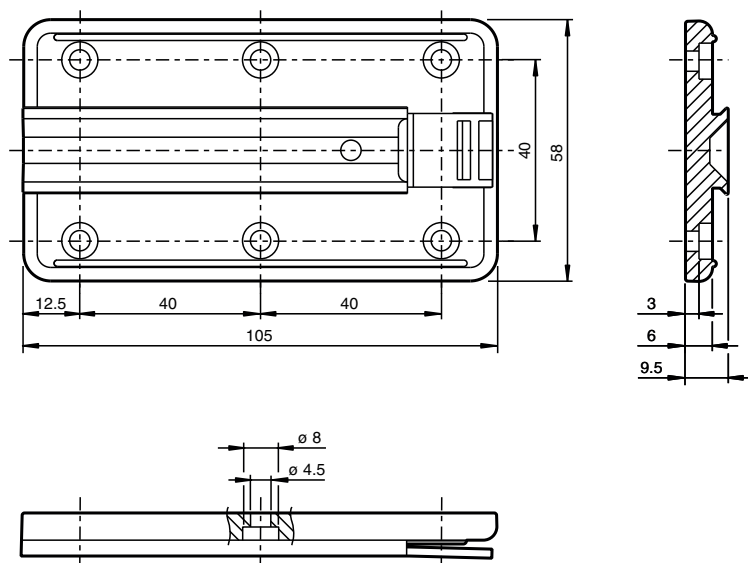
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PEPPERL+FUCHS

Dimensions



Technical Data

General specifications

Passage speed	v	≤ 4 m/s
Measuring range		max. 152 m
Free tolerances to code rail		horizontal: 31 mm (± 15.5 mm) vertical: 28 mm (± 14 mm)
Resolution		± 0.6 mm (833.3 positions/m)

Functional safety related parameters

MTTF _d		50 a
Mission Time (T _M)		10 a
Diagnostic Coverage (DC)		0 %

Indicators/operating means

Operation indicator		LED green: power on
Data flow indicator		LED yellow: data communication active
Error indicator		LED red flashing: read head outside of code rail solid on: internal diagnostic test failed

Electrical specifications

Operating voltage	U _B	10 ... 30 V DC
Power consumption	P ₀	2 VA

Interface

Interface type		RS 485 interface
Data output code		binary code
Protocol		WCS data protocol 3 no parity, 8 data bits, 1 stop bit
Transfer rate		Baud rate 62.5 kBit/s
Address		0
Termination		with RS 485 termination

Standard conformity

Emitted interference		DIN EN 61000-6-4 , DIN EN 12015
Noise immunity		DIN EN 61000-6-2 , DIN EN 12016
Shock resistance		DIN EN 60068-2-27, half sine 30 g, 18 ms

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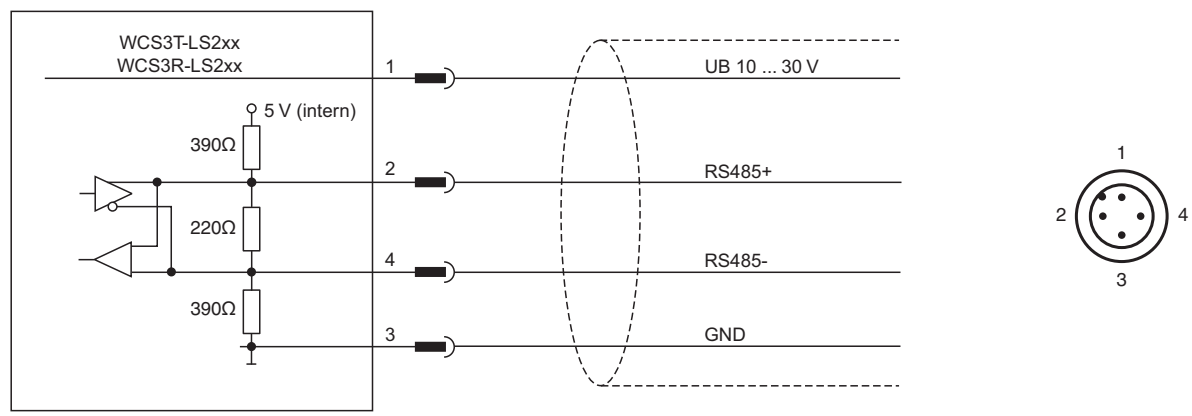
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Vibration resistance		DIN EN 60068-2-6, sine, 5 g, 10 - 2000 Hz, 10 cycles
Approvals and certificates		
CSA approval		cCSAus Certified, General Purpose Class 2 power source
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		
Operating temperature		0 ... 60 °C (32 ... 140 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		90 % , noncondensing
Mechanical specifications		
Connection type		4-pin, M12 x 1 connector
Degree of protection		IP54
Material		
Housing		ABS , PC (Polycarbonate)
Mass		500 g
General information		
Ordering information		Mounting plate included with delivery

Connection



Accessories

	WCS-MP1	Mounting plate for reading heads WCS2 and WCS3
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