

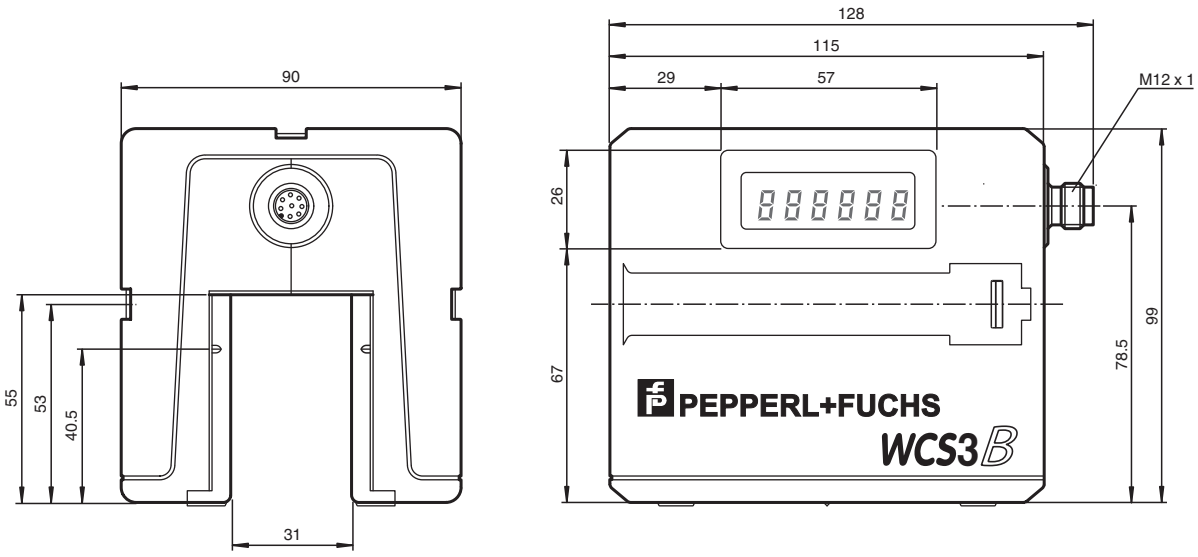
Read head

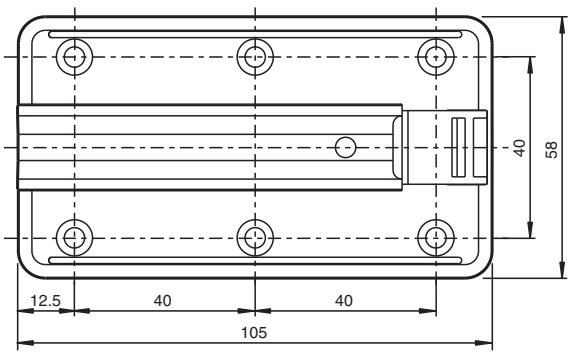
WCS3B-LS310D-Y9472

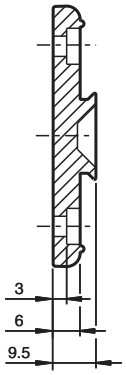
- SSI interface
- Non-contact, absolute position encoder
- Automatic detection of dirt accumulation
- Integrated display module

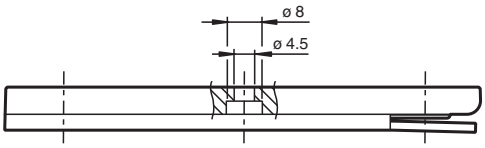
Reading head, SSI interface, binary code

Dimensions









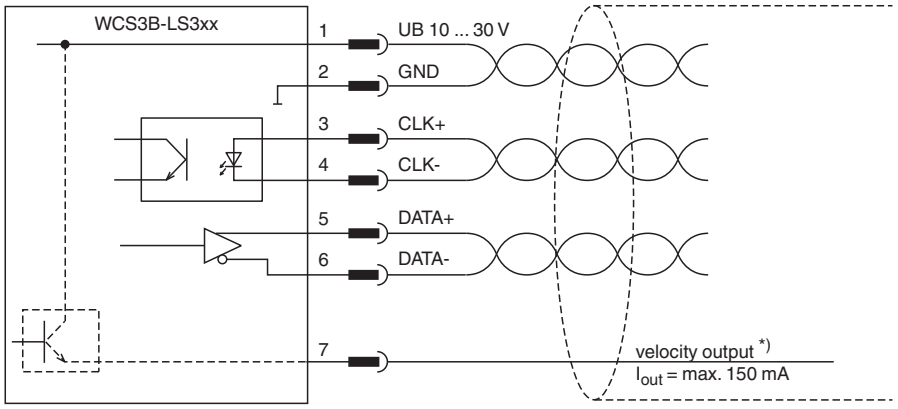
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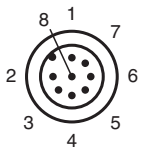
Technical Data

General specifications		
Passage speed	v	≤ 12.5 m/s
Measuring length		max. 314.5 m
Free tolerances to code rail		horizontal: 31 mm (± 15.5 mm) vertical: 28 mm (± 14 mm)
Resolution		± 0.4 mm (1,250 positions/m)
Functional safety related parameters		
$MTTF_d$		182 a
Mission Time (T_M)		20 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
Display		Display module, 6-digit adaptable to installation position
Electrical specifications		
Operating voltage	U_B	10 ... 30 V DC
Power consumption	P_0	2 VA
Interface		
Interface type		SSI interface
Data output code		binary code , 25 bit
Clock frequency		100 ... 1000 kHz
Pause time	tp	≥ 20 µs double request possible, if t_p ≤ 10 µs
Conformity		
Photobiological safety		exempt group according to EN 62471:2008
Standard conformity		
Emitted interference		DIN EN 61000-6-4
Noise immunity		DIN EN 61000-6-2
Shock resistance		DIN EN 60068-2-27, half sine 30 g, 18 ms
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 % , non-condensing
Mechanical specifications		
Connection type		8-pin, M12 x 1 connector
Degree of protection		IP54
Material		
Housing		ABS , PC (Polycarbonate)
Mass		500 g
Dimensions		
Height		99 mm
Width		90 mm
Length		115 mm
Factory settings		
Display		Rotated 180° for overhead mounting
General information		
Order information		Mounting plate included with delivery

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Connection Assignment





*) only with option S, velocity output

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