

Read head

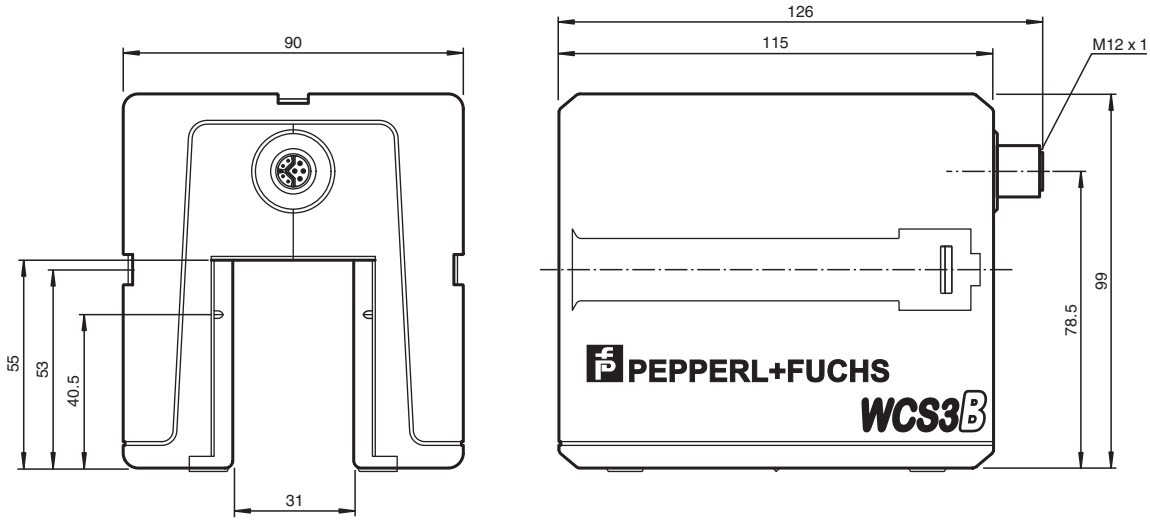
WCS3B-LS510

- Non-contact, absolute position encoder
- Output of position and speed
- Automatic detection of dirt accumulation
- Unicast communication
- A shared connection for supply and Ethernet

Read head with EtherNet/IP interface

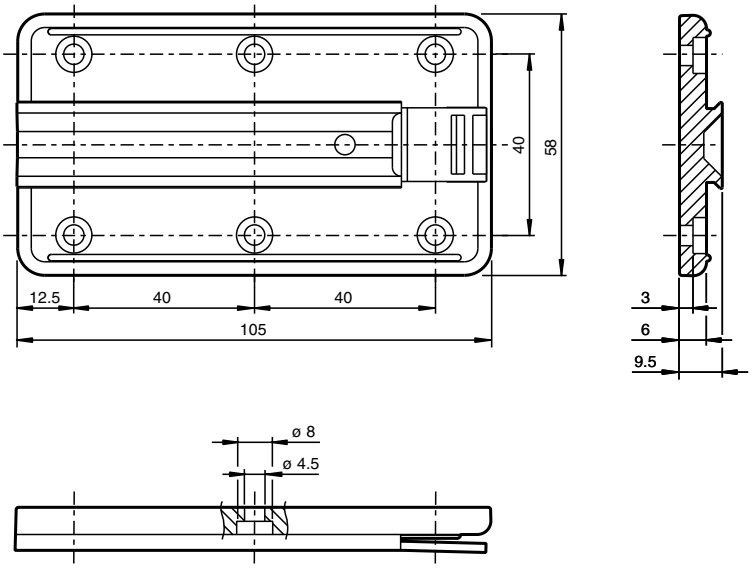
EtherNet/IP™

Dimensions



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Dimensions



Technical Data

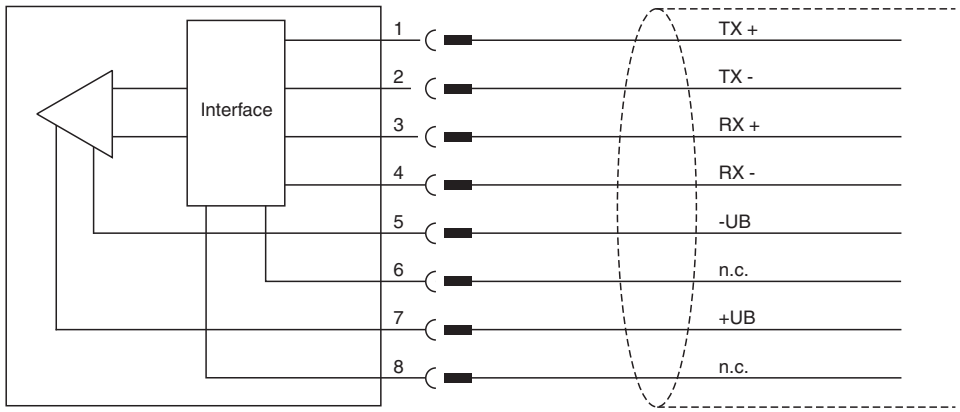
General specifications		
Passage speed	v	≤ 12.5 m/s
Measuring range		max. 314.5 m
Free tolerances to code rail		horizontal: 31 mm (± 15.5 mm) vertical: 28 mm (± 14 mm)
Resolution		± 0.4 mm (1,250 positions/m)
Functional safety related parameters		
$MTTF_d$		181 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LED green		ETHERNET link To: ETHERNET connection OK
LED yellow		ETHERNET Bus Activity Flashing: data transfer
LED red		ETHERNET communication To: communication error
LED red/green		Status indication Green: code rail detected, normal function Red: system error Flashing red: no code rail detected
Electrical specifications		
Operating voltage	U_B	10 ... 30 V DC
Power consumption	P_0	6 W
Interface		
Interface type		100 BASE-TX
Data output code		binary code
Protocol		EtherNet/IP
Transfer rate		100 MBit/s
Standard conformity		
Emitted interference		EN 61000-6-4:2007+A1:2011
Noise immunity		EN 61000-6-2:2005

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Technical Data

Shock resistance	EN 60068-2-27:2009
Vibration resistance	EN 60068-2-6:2008
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	8-pin, M12 x 1 connector socket, Y-coded
Cable gland	Max. tightening torque of the cap nut: ≤ 0.4 Nm
Degree of protection	IP54
Material	
Housing	ABS , PC (Polycarbonate)
Mass	500 g
General information	
Ordering information	Mounting plate included with delivery

Connection





Accessories

	**WCS3B-PL2**	Transparent protective case and seal for WCS3B reader
	**V19SY-G-BK2M-PUR-ABG**	Male single-ended cordset, M12, 8-pin, Y encryption, PUR cable, shielded
	**V19SY-G-BK5M-PUR-ABG**	Male single-ended cordset, M12, 8-pin, Y encryption, PUR cable, shielded
	**WCS-MP1**	Mounting plate for reading heads WCS2 and WCS3
	**V19SY-G-BK10M-PUR-ABG**	Male single-ended cordset, M12, 8-pin, Y encryption, PUR cable, shielded

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Accessories

	**V45-G**	Field-attachable male connector
	**V45-GP**	Field-attachable "Push-Pull" connector
	**V15S-W-ABG-PG9**	Cable connector, M12, 5-pin, shielded, non pre-wired
	**V15S-G-ABG-PG9**	Cable connector, M12, 5-pin, shielded, non pre-wired
	**WCS-V45DIN-8P**	Terminal Block

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