



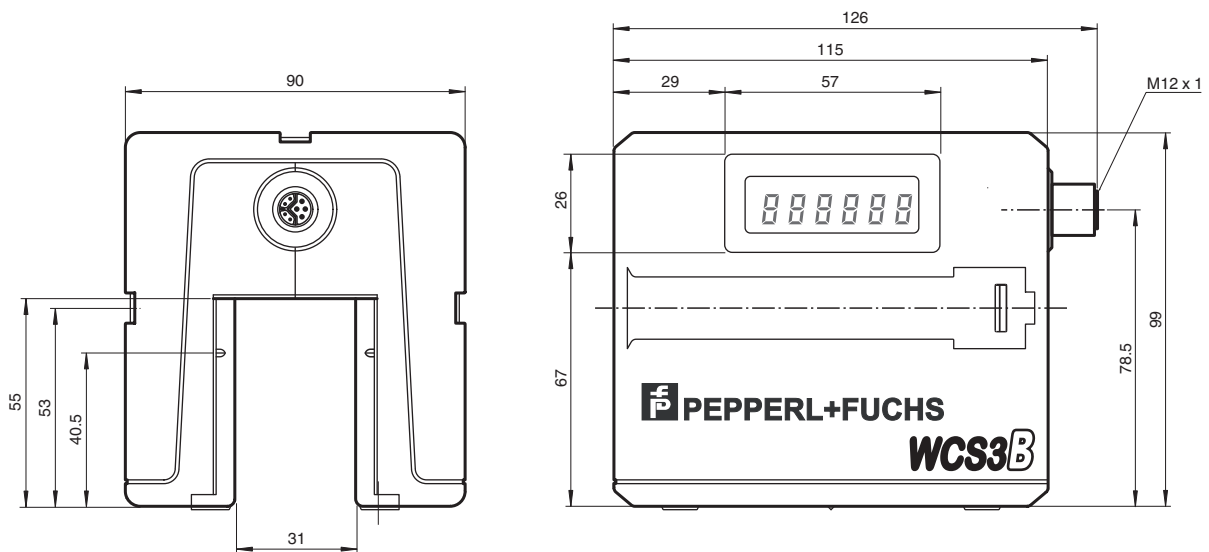
## Read head WCS3B-LS510D

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

Read head with EtherNet/IP interface



### Dimensions



Release date: 2022-10-20 Date of issue: 2022-10-20 Filename: 304867\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

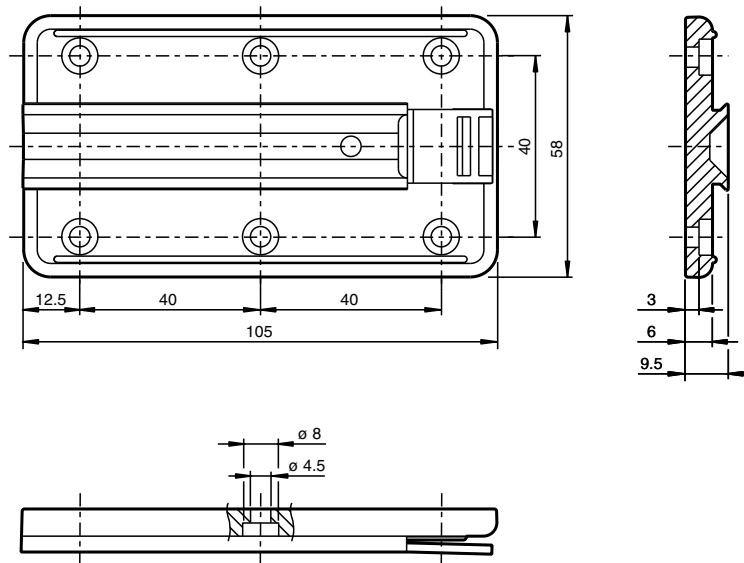
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**PEPPERL+FUCHS**

## Dimensions



## Technical Data

### General specifications

Passage speed	v	≤ 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 <sub>d</sub>		172 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %

### Indicators/operating means

Display		Display module, 6-digit , adaptable to installation position
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 <sub>B</sub>	10 ... 30 V DC
Power consumption	P <sub>0</sub>	6 W

### Interface

Interface type		100 BASE-TX
Data output code		binary code
Protocol		EtherNet/IP
Transfer rate		100 MBit/s

### Standard conformity

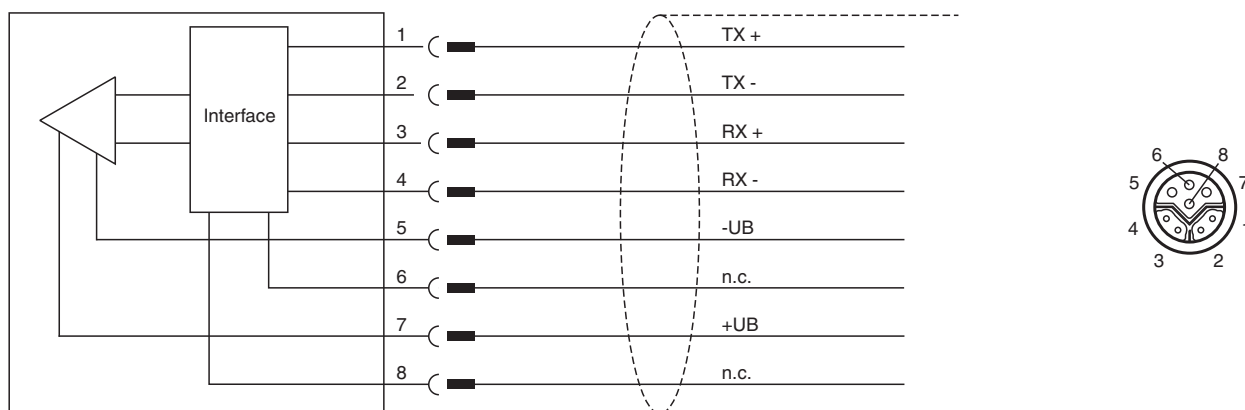
Emitted interference		EN 61000-6-4:2007+A1:2011
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## Technical Data

Noise immunity	EN 61000-6-2:2005
Shock resistance	EN 60068-2-27:2009
Vibration resistance	EN 60068-2-6:2008
<b>Approvals and certificates</b>	
CSA approval	cCSAus Certified, General Purpose Class 2 power source
CCC approval	CCC approval / marking not required for products rated ≤36 V
<b>Ambient conditions</b>	
Operating temperature	0 ... 60 °C (32 ... 140 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	90 % , noncondensing
<b>Mechanical specifications</b>	
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
<b>Material</b>	
Housing	ABS , PC (Polycarbonate)
Mass	500 g
<b>General information</b>	
Ordering information	Mounting plate included with delivery






## Connection



## Accessories

	<b>WCS3B-PL2</b>	Transparent protective case and seal for WCS3B reader
	<b>WCS-MP1</b>	Mounting plate for reading heads WCS2 and WCS3
	<b>V19SY-G-BK10M-PUR-ABG</b>	Male single-ended cordset, M12, 8-pin, Y encryption, PUR cable, shielded
	<b>V45-G</b>	Male connector RJ45 straight 4-pin, Cat5, shielded, field-attachable
	<b>V45-GP</b>	Male connector RJ45 straight 4-pin, Cat5, shielded, field-attachable, Outdoor

## Accessories

	<b>V15S-W-ABG-PG9</b>	Male connector M12 angled A-coded 5-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	<b>V15S-G-ABG-PG9</b>	Male connector M12 straight A-coded 5-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	<b>WCS-V45DIN-8P</b>	Terminal Block
	<b>V19SY-Y-V1D/V1S</b>	Y-Splitter M12 plug 8-pin Y-coded to M12 socket 4-pin D-coded / M12 plug 4-pin A-coded
	<b>V19SY-G-BK*M-PUR-ABG</b>	Ethernet bus cable male cordset single-ended M12 straight Y-coded 8-pin, PUR cable black, Cat5e, shielded, drag chain suitable