



Model number

WCS3B-LS221H-OL

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

Features

- For outdoor use
- Non-contact, absolute position encoder
- Extended temperature range
- Automatic detection of dirt accumulation
- RS-485 interface
- Freely selectable cable outlet due to rotating insert

Accessories

WCS3B-OBP

Stopping plugs For WCS3B-OP* housing

WCS3B-OPC

Outdoor protective cover for WCS3B reader

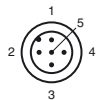
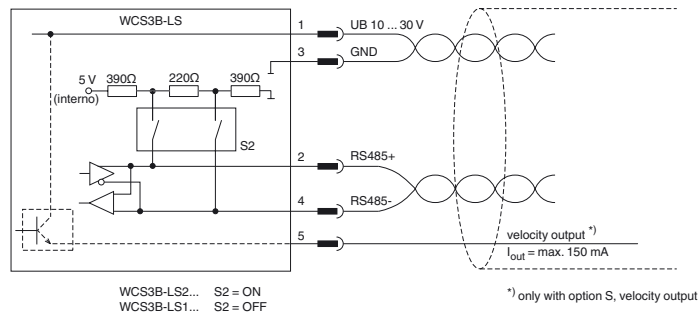
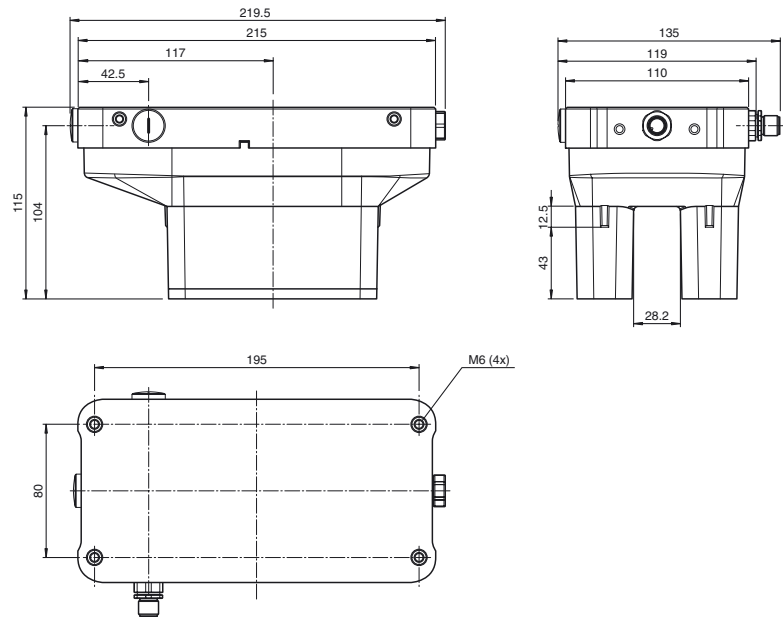
WCS3B-OPH

Outdoor protective housing for reader WCS3B

Note

with RS-485 interface

Dimensions



Technical data

General specifications

Passage speed	v	≤ 12.5 m/s
Measuring range		max. 314.5 m
Free tolerances to code rail		horizontal: 28 mm (± 14 mm) vertical: 25.5 mm (+11.5 mm/-14 mm)
Resolution		± 0.4 mm (1,250 positions/m)

Functional safety related parameters

MTTF _d	60 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	11 VA at 24 V DC

Interface

Interface type	RS 485 interface
Data output code	binary code
Protocol	1, 2
Transfer 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
Vibration resistance	DIN EN 60068-2-6, sine, 5 g, 10 - 2000 Hz, 10 cycles

Ambient conditions

Operating temperature	-40 ... 60 °C (-40 ... 140 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Connection type	5-pin, M12 x 1 connector
Degree of protection	IP67 / IP69
Material	
Housing	PET , PC (Polycarbonate)
Mass	1000 g
Note	The reader must not be operated without the protective housing!