

Tech-Sheet

ZMB-200 for cable photocells

The simplest timing system for equestrian sports coming soon at 2nd quarter of 2020.
 Preliminary version.

Photocell System
 External Light Security
 Range IR Transmitter

infra-red, pulsing
 10 kLux / 20°
 Standard version 45m or Extended 70m
 both with functional reserve

Time Precision
 Time Base
 Time Drift

high precision timing system, GPS synchronized
 1/10.000 sec
 < 1 ppm @ -40°C < T < 85°C,
 Ageing +/- 1 ppm max per year

IR Receiver Precision
 Radio Frequency

< 200 µS, repeated, fixed delay 500ms
 ISM Band 863 < 870 MHz (Europe) 28 Channels,
 Mesh network topology

Power
 Range

32mW
 typ. 500m line of sight, nom. 2,5km optimal conditions

Stand-by Memory Function
 Safety Function
 GPS Receiver
 Charge & Sync Socket
 Working Temperature
 Working Time

active for 4 hours after switching module off
 save sync clock
 GPS, Glonass (optional)
 5 pin socket RS485
 -20°C < T < 60°C
 @ 20°C up to 120 hours (Transmitter),
 up to 85 hours (Receiver)

Battery

internal Lithium-Ion Rechargeable Pack 8,4V /
 6700mAh

Battery Loading
 Safety Unit

with special charger @ 10°C < T < 45°C
 over voltage / under voltage / short circuit protection
 / current limit

Dimension, Weight
 Homologation

176 x 112 x 56mm , 800g
 coming soon at 2nd quarter of 2020





Wiebrock Mess- und Regeltechnik GmbH

Maschstr. 22 * 32052 Herford
Germany
Phone +49 5221 98 29 0
www.wiebrock.de

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