Signal Processing

Fiber-optic transmitter with outdoor box for interference-free transmission of square-wave signals

Fiber-optic transmitter in outdoor box: LWL-SBR

LWL-SBR

Features

- **Transmission length up to 1500 m**
- **Converting standard square-wave signals into optical signals**
- **Transmission error detection via checksum (CRC)**
- **High-precision transmission of signals (Jitter <100 ns)**
- **Constant delay time <20 µs**
- **Automatic channel switchover in realtime upon failure of one fiber-optic channel**
- **Outdoor box with protection IP 66, IP 67**

Technical data - electrical ratings

Voltage supply	9...30 VDC
Consumption	≤300 mA
Inputs	HTL, TTL
Input signals	K1, K2, K0 + inverted Err + inverted
Outputs	Fiber1, Fiber2
Start time	<500 ms
Wave length	~820 nm
Transmission length	≤1500 m

Technical data - mechanical design

Dimensions W x H x L	122 x 81 x 220 mm
Protection DIN EN 60529	IP 66/IP 67
Ambient temperature	-40...+85 °C
Weight approx.	300 g
Connection	1x cable gland M16x1.5 1x cable gland M20x1.5 1x cable gland M32x1.5 Screw terminal connector 2x ST connector
Housing type	Mounting on standard rails according to EN 50022
Material	Housing: aluminium die-cast

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Part number

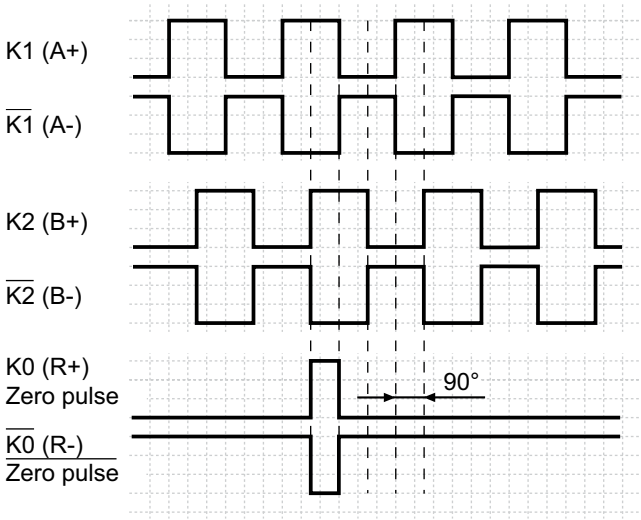
Fiber-optic transmitter mounted in outdoor box

LWL-SBR **11126092**

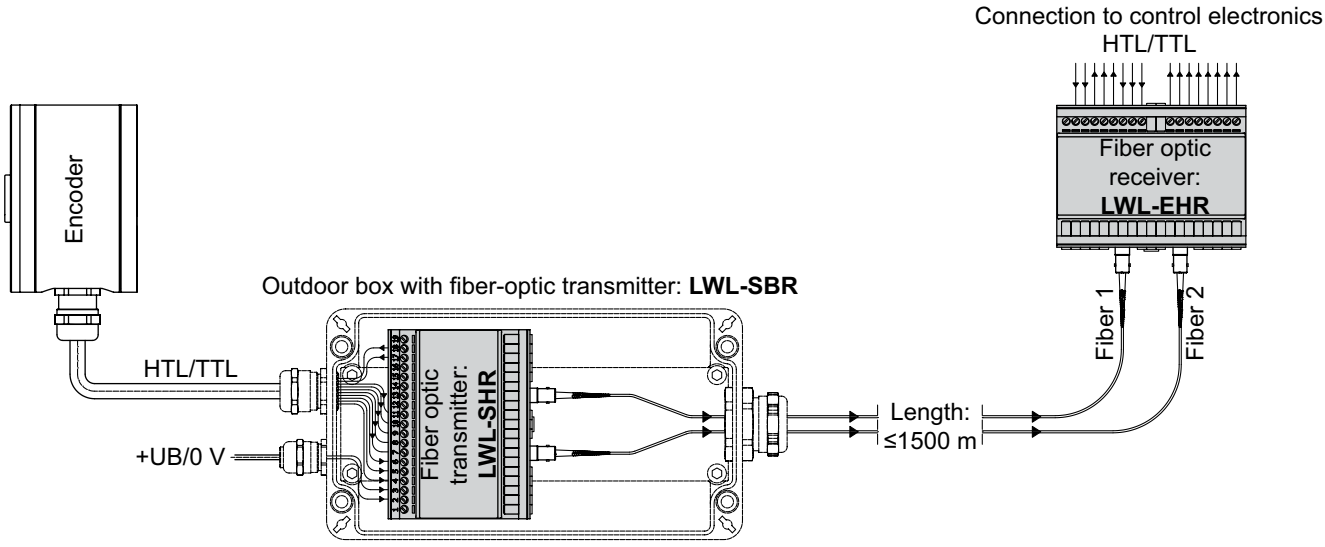
	Design
11126092	With transmitter LWL-SHR

Output signals

At positive rotating direction



Connection diagram



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Dimensions