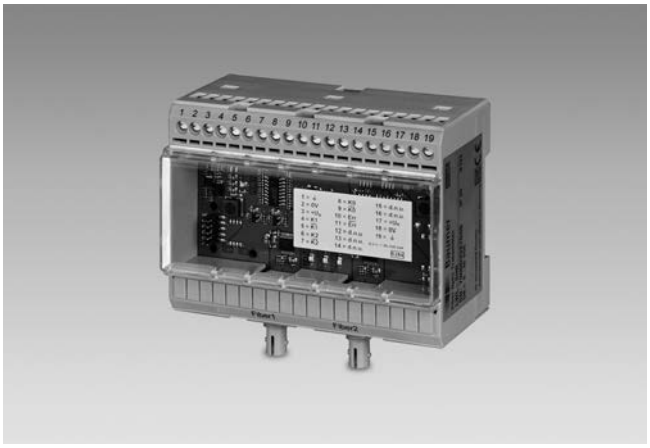
Signal Processing

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

Fiber-optic transmitter: LWL-SHR



LWL-SHR

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**

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	100 x 75 x 53 mm
Protection DIN EN 60529	IP 20
Operating temperature	-20...+70 °C (without dew)
Connection	Screw terminal connector 2x ST connector
Housing type	Mounting on standard rails according to EN 50022

Fiber-optic transmitter: LWL-SHR

Part number

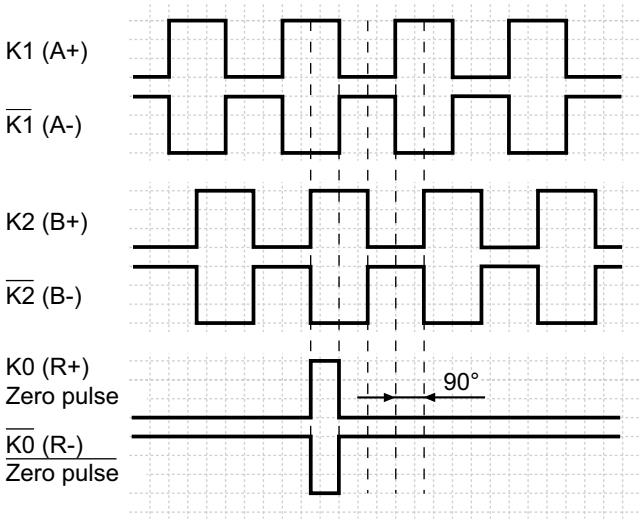
Fiber-optic transmitter, output 2x fiber-optic

LWL-SHR **11090965**

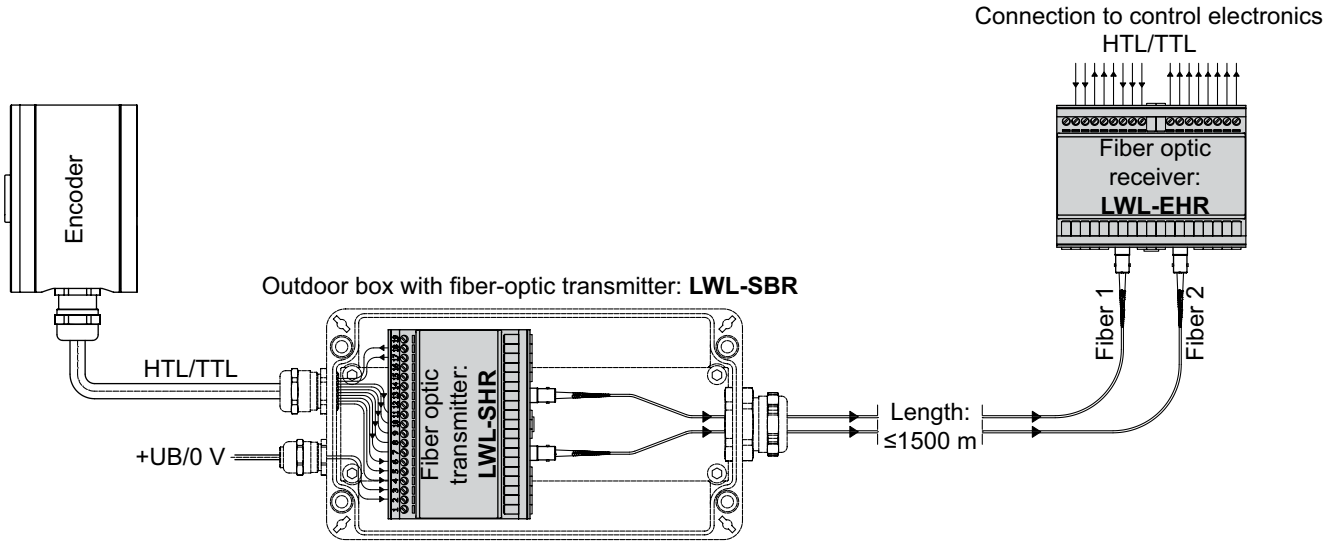
	Input stages
11090965	Input HTL/TTL

Output signals

At positive rotating direction



Connection diagram



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Dimensions