



LW217 / LW218

Optical fiber modules for transmission of SSI encoders and measuring systems

Product Features:

- The optical fiber modules LW217 and LW218 are forming together a transmission system for data transmission of SSI signals by means of optical fibers
- For use with all encoders and sensors equipped synchronous serial interface (SSI)
- Safe and reliably transmission of signals, up to a distance of 2000 meters
- The optical fiber cable can be routed through explosive areas as well
- Input / Output data rate of max. 2 Mbit/s (transmitter and receiver)
- Resistant against extremely strong electromagnetic fields
- Glass fiber cables are available ready assembled
- Free adjustable SSI resolution from 1 to 99 bit
- Power supply either 5 VDC or 10 to 30 VDC
- Compact mounting on a 35 mm top hat rail

Available Systems:

LW217 / LW218:

Optical Fiber Module pair
(transmitter and receiver)

- 5 VDC power supply voltage
- 850 nm wave length
- transmission distance up to 2000 meters

LW217-1 / LW218-1:

Optical Fiber Module pair
(transmitter and receiver)

- 10 ... 30 VDC power supply voltage
- 850 nm wave length
- transmission distance up to 2000 meters

| Technical Specifications: | | |
|------------------------------------|---|---|
| Power supply: | LW217 / 218: LW217-1 / 218-1: Ripple: Protection circuit: Consumption: Connections: | 5 VDC / $\pm 5\%$ 10 ... 30 VDC $\leq 10\%$ at 24 VDC reverse polarity protection < 1 W (per module) screw terminal, 1.5 mm ² / AWG 16 |
| Optical fiber connection: | Optical wave length: Optical transmission rate: Glass fiber: Transmission distances: Connections: | 850 nm resp. 1300 nm (multimode) 120 Mbit/s Multimode - fiber, 50/125 μm , 62.5/125 μm max. 2000 m (transmitter and receiver) ST-plug (at the underside of the housing) |
| SSI in- and outputs: | Transmission channels: Other inputs: Other outputs: Format: Data rate (input / output): | -T, +T and -D, +D (transmitter and receiver) /Error NPN input (transmitter) Open Drain output (receiver) RS422 max. 2 Mbit/s (transmitter and receiver) |
| Signal processing: | Conversion time: | < 300 ns per module |
| Display elements: | Type: Functions: | 1 x LED (green) continuously on: synchronization ok flashes : synchronization error resp. disconnected / broken optical fiber cable |
| Housing: | Material: Mounting: Dimensions (w x h x d): Protection class: Weight: | green plastic (RAL 6018) 35 mm top hat rail (according to EN 60715) 19 x 92.3 x 110 mm / 0.7480 x 3.634 x 4.331 inch IP40 / screw terminal: IP20 approx. 80 g |
| Ambient temperature: | Operation: | -10 °C ... +70 °C / 14° F ... 158° F (not condensing) |
| Conformity & standards: | Interference resistance: Transient emissions: Guideline 2011/65/EU: | EN 61000-6-2:2006 EN 55011 Class B RoHS-conform |