



## 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:		
<b>Power supply:</b>	LW217 / 218: LW217-1 / 218-1: Ripple: Protection circuit: Consumption: Connections:	5 VDC / ± 5% 10 ... 30 VDC ≤ 10 % at 24 VDC reverse polarity protection < 1 W (per module) screw terminal, 1.5 mm <sup>2</sup> / AWG 16
<b>Optical fiber connection:</b>	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)
<b>SSI in- and outputs:</b>	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)
<b>Signal processing:</b>	Conversion time:	< 300 ns per module
<b>Display elements:</b>	Type: Functions:	1 x LED (green) continuously on: synchronization ok flashes : synchronization error resp. disconnected / broken optical fiber cable
<b>Housing:</b>	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
<b>Ambient temperature:</b>	Operation:	-10 °C ... +70 °C / 14° F ... 158° F (not condensing)
<b>Conformity &amp; standards:</b>	EMC 2014/30/EU: RoHS ( II ) 2011/65/EU RoHS ( III ) 2015/863:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1  EN IEC 63000