OPTICAL TRANSMITTER

Frankonia's broad range of optical transmitters allow data transfer during emission and immunity tests within shielded rooms or anechoic chambers. The optical transmission ensures safe communication without interfering with the testing environment or disturbing peripherals. Our range of optical transmitters is available for any kind of application.

Features
- Fully compliant for emissions or immunity testing
- Customized transmitters available
- Safe data communication

Optical Transmitters	
Type	**Description**
LWL-dAV	Digital optical transmission of analogue A/V-signals, single-ended (optional differential switchable)
LWL-F2V-100	Exchanger frequency signal => voltage signal; four frequency ranges selectable up to 100 kHz
LWL-Heat	Temperature monitoring with optical output, -50 °C to +500 °C (optionally -200 °C to 1,200 °C)
LWL-1394	Optical FireWire transmission, up to 400 Mbit/s (optional: up to 800 Mbit/s)
LWL-232-HS	Optical RS232-transmission with handshake, up to 116 kbit/s
LWL-485	Optical RS485-transmission (data +/-), up to 1 Mbit/s
LWL-CAN-HS	Optical one-channel CAN-HS (high-speed) transmission, up to 1 Mbit/s
LWL-CAN-FD	Optical one-channel CAN-FD (flexible data rate) transmission, up to 10 Mbit/s
LWL-CAN-LS	Optical one-channel CAN-LS (low-speed) transmission, up to 25 kbit/s
LWL-CAN-SW	Optical one-channel CAN-SW (single-wire) transmission, up to 33 kbit/s (100 kbit/s)
LWL-CML	Optical transmission of video signals (various chip sets, ask for details)
LWL-Flex-s	Optical transmission of FlexRay signals, up to 10 Mbit/s
LWL-K	Optical transmission of K-line signals, up to 30 kbit/s
LWL-LAN	Optical transmission of Ethernet signals (100 Mbit/s, not downward compatible)
LWL-LAN-Gb	Optical transmission of Ethernet signals (10/100/1000 Mbit/s)
LWL-LIN	Optical transmission of LIN signals, up to 20 kbit/s
LWL-LVDS-1-ds	Optical transmission of single-channel LVDS signals (various chipsets, ask for details)
LWL-PSI5	Optical transmission of PSI5 signals, up to 200 kbit/s, sync, parallel, or serial bus
LWL-SENT	Optical transmission (analog) of asynchronous SENT signals, up to 1 MHz, integrated sensor supply; optional second channel
LWL-SENT-2-d	Optical two-channel transmission (digital) of synchronous SENT signals, up to 1 MHz, integrated sensor supply
LWL-SPI	Optical transmission of SPI signals, up to 1 Mbit/s, integrated sensor supply 3.3 V/5 V
LWL-SPI-hs	Optical transmission (POF fiber) of SPI signals, up to 10 Mbit/s, integrated sensor supply 3.3 V/5 V
LWL-TTL	Optical transmission of TTL-signals, one to 16 channels (optionally bi-directional), up to 100 kHz digital signals, input 0/5 and 0/12V; output 0/5V

Optical Transmitters	
Type	**Description**
LWL-USB2.0	Optical transmission of USB2.0 signals, up to 480 Mbit/s
LWL-U1-12	Optical transmission of one-channel analogue signals min. 10 bit resolution, up to 10 MHz, I/O: +/-15V
LWL-U1-12-30M	Optical transmission of one-channel analogue signals, min. 10 bit resolution, up to 30 MHz, I/O: +/-5V
LWL-U2-12	Optical two-channel transmission of analogue signals, min. 10 bit resolution, up to 10 MHz, I/O: +/-15V
LWL-U2-12-1M	Optical two-channel transmission for analogue signals, min. 10 bit resolution, up to 1 MHz, I/O: +/-15V
LWL-Ux-12-1M	Optical multi-channel transmission (1-8) of analogue signals, min. 10 bit resolution, up to 1 MHz, I/O: +/-15V; x = number of channels
LWL-Ux-12-100k	Optical multi-channel transmission (1-16) of analogue signals, min. 10 bit resolution, up to 100 kHz; I/O: +/-15V; x = number of channels

*Beyond the listed optical transmitters, special customer requirements of any kind can be discussed and developed as long as appropriate requirements are provided.