

	FUNCTIONAL SUMMARY		
	IN	OUT	
#	8	8	
TYPE	2 Wire	2 Wire	
FORM	А	A	



OPL-8B OPTICAL FIBER PULSE LINK

DESCRIPTION

The OPL-8B optical fiber pulse link system is a transmitter/receiver pair designed to send eight multiplexed channels of metering pulses over long distances. The OPL-8B can receive and transmit pulses over distances up to 9 miles using multi-mode fiber, or up to 68 miles using single-mode fiber. Transmission distances vary depending on the quality of the fiber.



The OPL-8B system makes it possible to quickly implement an 8-channel optical pulse link with minimal effort. The system includes the power supplies, wetting voltage, isolation relays, and terminal block connectors making it possible to have a multichannel optical link up and running in minutes. The OPL-8B utilizes standard "ST" twist lock connectors and makes connections reliable, quick and easy. The fiber optic cable is not included.

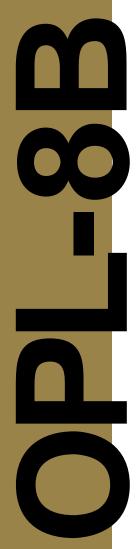
Each OPL system consists of an OPT-8B transmitter and an OPR-8B receiver. The transmitter and receiver are mounted on 5.5"x9.5" panels for assembly in another control enclosure on into an optional NEMA 4X raintight enclosure. The OPT-8B transmitter is designed to receive pulses from electric meters' KYZ pulse initiators. Pulses are conditioned, multiplexed, and sent by fiber to an OPR-8B receiver where the pulse information is validated, de-multiplexed, and implemented into the correct pulse state. Each input is configured as Form A (2-wire). The OPT-8B transmitter requires an OPR-8B receiver of the same fiber type.

Bright red and green LEDs monitor the input status to the OPT-8B transmitter and provide easy & immediate visual system checking without additional test equipment. An incorrect sequence of input pulses will not be recognized and only the first valid pulse of the sequence will be transmitted. While the OPT-8B transmitter is primarily designed for the transmission of metering pulses, it is capable of transmitting any desired Form A contact closures such as a relay, switch, breaker status, etc. to an OPR-8B receiver.

The OPR-8B receiver also includes bright red and green LEDs to monitor the KYZ output status. The OPR-8B features eight solid-state Form A dry-contact output relays (SPST) for a no-bounce contact with internal transient suppression circuitry to eliminate electrical noise and harmful voltage transients.



OPT-8B-1 Transmitter, OPR-4B-1 Receiver, ordered separately, multi-mode fiber, 0-2.5 miles OPT-8B-2 Transmitter, OPR-4B-2 Receiver, ordered separately, multi-mode fiber, 1-9 miles OPT-8B-3 Transmitter, OPR-4B-3 Receiver, ordered separately, single-mode fiber, 0-14 miles OPT-8B-4 Transmitter, OPR-4B-4 Receiver, ordered separately, single-mode fiber, 10-50 miles OPT-8B-5 Transmitter, OPR-4B-5 Receiver, ordered separately, single-mode fiber, 10-68 miles





PULSE LINKS

OPL-8B OPTICAL FIBER PULSE LINK

SPECIFICATIONS

ELECTRICAL

Power Input (OPT and OPR):	120, 208-277 VAC. Burden: 4 VA
Signal Input:	Eight Form A (K & Z) inputs from the sending device's dry contact (electric meters' KY output)
Output:	Optical Fiber Output to OPR-8B Receiver
Maximum Pulse Rate:	>10 pulses per second (Form A)
Sense Voltage:	+13VDC provided to the sending device(s)
Transmission Distance:	Approx. 2.5 to 9 miles using multi-mode fiber; 14 to 68 miles using single-mode fiber, depending on exact model

MECHANICAL

Mounting:	Any position. Mounted on aluminum base plate with mounting tabs and keyhole mounting slots.
Size:	5.5" wide, 9.5" high, 3.5" deep
Weight:	2 pounds

TEMPERATURE

Temperature Range:	-38° C to +70° C, -36.4° F to +158° F
Humidity:	0 to 98% non-condensing

AVAILABLE OPTIONS

Input Voltages:	Contact Factory
	NEMA 4X raintight and dustproof enclosure available. 12.0" high, 10.0" wide, 6.0" deep

