



IOL3000

ANALOG- AND
CONTACT CLOSURE
FO-SYSTEM

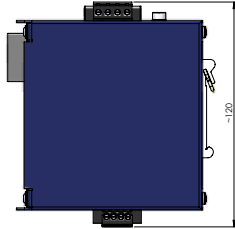
8 X CONTACT
CLOSURE
4 X ANALOG SIGNAL

The fiber optic system IOL3000 transmits digital signals (e.g., contact closures, control-signals) and analog signals via fiber optics.

The fiber optic system is able to transmit up to 8 digital signals (12–24 VDC) and/or 4 analog signals (0–10 V or 0–20 mA, digitalized via A/D converter with a resolution of 10 Bit) within a point-to-point structure or line-structure.

The interconnection of an input/pass system (ED) allows the transmission of additional digital and analog data. You can choose if you want to have an electric disjunction (OR) of electrically and optically received data or if the electric data shall overwrite the optical data. In case of analog data the DIP switch must be used to decide whether the optical or the electrical signals shall be transmitted. The devices are available for line or ring structures as one fiber solutions.

LEDs and potential-free contacts of a fault detector relay are able to signal defective states.



Transmitter and Receiver

Transmitter IOL3000	P-ST	H-ST	MM-ST	MM-SC		SM-ST	SM-SC	SM-E2	
4 x Analog 0-10 V	03000 1101	03000 1112	03000 1121	03000 1123		03000 1131	03000 1133	03000 1135	
4 x Analog 0-10 V 8 x Digital 12-24 VDC	03000 1201	03000 1212	03000 1221	03000 1223		03000 1231	03000 1233	03000 1235	
8 x Digital 12-24 VDC	03000 1301	03000 1312	03000 1321	03000 1323		03000 1331	03000 1333	03000 1335	
4 x Analog 0-20 mA 8 x Digital 12-24 VDC	03000 1401	03000 1412	03000 1421	03000 1423		03000 1431	03000 1433	03000 1435	
4 x Analog 0-20 mA	03000 1501	03000 1512	03000 1521	03000 1523		03000 1531	03000 1533	03000 1535	
Receiver IOL3000	P-ST	H-ST	MM-ST	MM-SC		SM-ST	SM-SC	SM-E2	
4 x Analog 0-10 V	03000 2101	03000 2112	03000 2121	03000 2123		03000 2131	03000 2133	03000 2135	
4 x Analog 0-10 V 8 x Digital 12-24 VDC	03000 2201	03000 2212	03000 2221	03000 2223		03000 2231	03000 2233	03000 2235	
8 x Digital 12-24 VDC	03000 2301 (IR)	03000 2312 (IR)	03000 2321 (IR)	03000 2323 (IR)		03000 2331 (IR)	03000 2333 (IR)	03000 2335 (IR)	
4 x Analog 0-20 mA 8 x Digital 12-24 VDC	03000 2401	03000 2412	03000 2421	03000 2423		03000 2431	03000 2433	03000 2435	
4 x Analog 0-20 mA	03000 2501	03000 2512	03000 2521	03000 2523		03000 2531	03000 2533	03000 2535	
FO-connector	ST	ST	ST	SC		ST	SC	E-2000	
Fiber type	POF 980/1000 μm	HCS 200/230 μm	Multimode 62.5 (50)/125 μm			Singlemode 9/125 μm			
Optical budget	12 dB	12 dB	12 dB			16 dB			
FO range	50 m (180 dB/km)	200 m (8 dB/km)	5 km (1 dB/km)			30 km, others up to 100 km on request (0.3 dB/km)			
Wavelength	650 nm	850 nm	1310 nm		1310 nm 1550 nm	1310 nm		1310 nm 1550 nm	
Accuracy Receiver	0,2 %								
Cable length	1 m								
Connector	16-pole terminal								
Status-LEDs	Power supply (green) / Data (yellow) / Status (red)								
Power supply	12-30 VDC, other voltages on request								
Power consumption	5 Watts, 200 mA (24 V)								
Potential separation	500 VDC								
Operating temperature	-40 °C - +70 °C (Multimode and Singlemode with ST or SC), -20 °C - +55 °C (all others)								
EMC	EN61000-6-2/EN55022 + A1 + A2 Class B								
Weight	570 g								
Dimensions	60 x 100 x 113 mm (60 x 120 x 113 mm incl. connector)								
Housing	Stainless steel, powder coated								