

OptoLink

- System for transmission of incremental encoder signals in an optical fiber
- Typical areas of use:
 - In environments with high electromagnetic disturbances
 - Transmission of signals over long distances
 - Where galvanic insulation is required



ELECTRICAL SPECIFICATION

Transmitter

Supply voltage +EV	9-30Vdc
	Polarity protected
Current consumption excl. encoder	Max 2W
Startup delay	10ms
Encoder connection	HTL
Power supply	Same as +EV
Input frequency range	0...200kHz
Input load	2,4kOhm
Fibre (not included)	62,5µm, multimode
Max length	1,5km
Connectors	ST-type

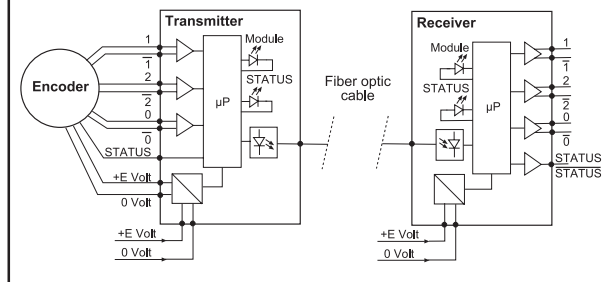
Receiver

Supply voltage +EV	9-30Vdc
	Polarity protected
Current consumption without load	Max 2W
Startup delay	10ms
Outputs	HTL
	Short circuit protected
Load max	± 40mA
Max cable length	200m @ 50kHz
U _{high} (at 10mA load)	> +EV -2,0V
U _{low} (at 10mA load)	< 1,15V
Frequency range	0...200kHz
Propagation delay from input in Transmitter	3µs excluded delay in fibre (delay in 1km fibre: 5µs)

ACCESSORIES

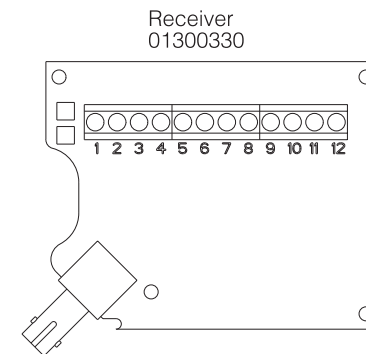
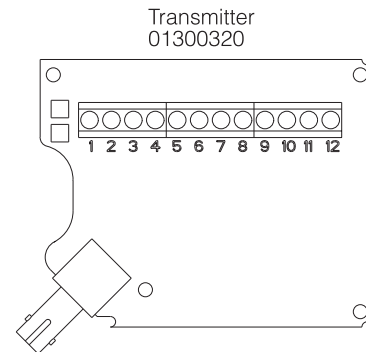
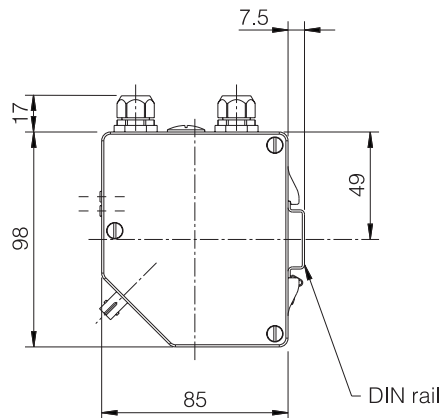
Fibre to OptoLink system	
Free length	Contact Leine & Linde
Encoders	See datasheet for encoders

SYSTEM DESCRIPTION



CONNECTION

Transmitter Function	Terminal	Receiver Function	Terminal
+EV (Encoder supply)	1	+EV	1
0V (Encoder supply)	2	0V	2
1	3	1	3
1	4	1	4
2	5	2	5
2	6	2	6
0	7	0	7
0	8	0	8
STATUS	9	STATUS	9
+EV (Supply)	11	STATUS	10
0V (Supply)	12		



MECHANICAL SPECIFICATION

Housing	Aluminium
Weight	Approx. 400g
Protection class	IP 65 according to IEC 529
Temperature	
Operating	-20°C ... +70°C
Storage	-20°C ... +70°C
LED indication	Module & Bus
Connection fibre	62,5µm ST type
Connection encoder	Screw terminal

ORDERING INFORMATION

Available models

01300320
Optolink Transmitter

01300330
Optolink Receiver