OptoLink

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- **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

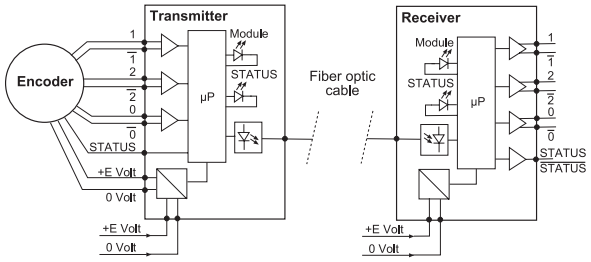
Receiver

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



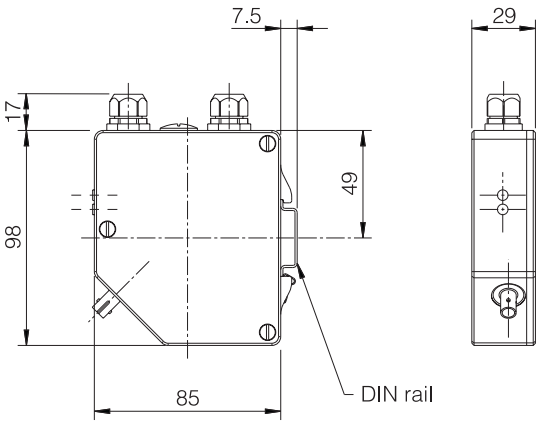
CONNECTION

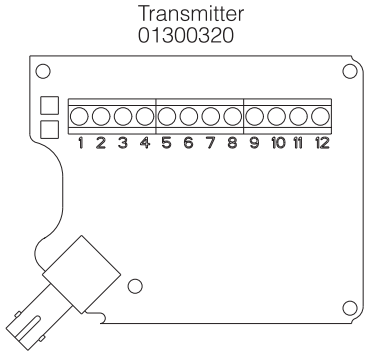
Transmitter Function	Terminal	Receiver Function	Terminal
+EV (Encoder supply)	1	+EV	1
0V (Encoder supply)	2	0V	2
1	3	1	3
$\overline{1}$	4	$\overline{1}$	4
2	5	2	5
$\overline{2}$	6	$\overline{2}$	6
0	7	0	7
$\overline{0}$	8	$\overline{0}$	8
STATUS	9	STATUS	9
+EV (Supply)	11	$\overline{\text{STATUS}}$	10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

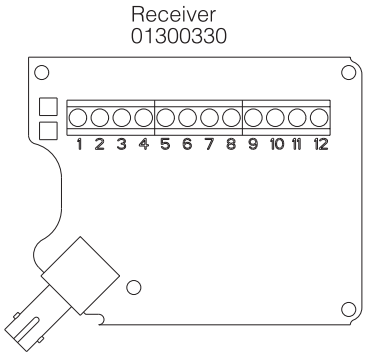
LEINE LINDE

CE

OptoLink







MECHANICAL SPECIFICATION

Housing	Aluminium
Weight	Approx. 400g
Protection class	IP 65 according to IEC 60529
Temperature Operating Storage	 -20°C ... +70°C -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

LEINE LINDE ISO 9001 / ISO 14001 certified
Olivehällsvägen 8, SE-64542 Strängnäs, Sweden.
Phone: +46 (0)152 26500. Fax: +46 (0)152 26505. E-mail: info@leinelinde.se