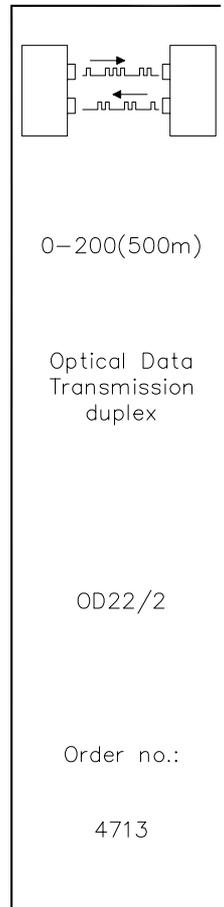
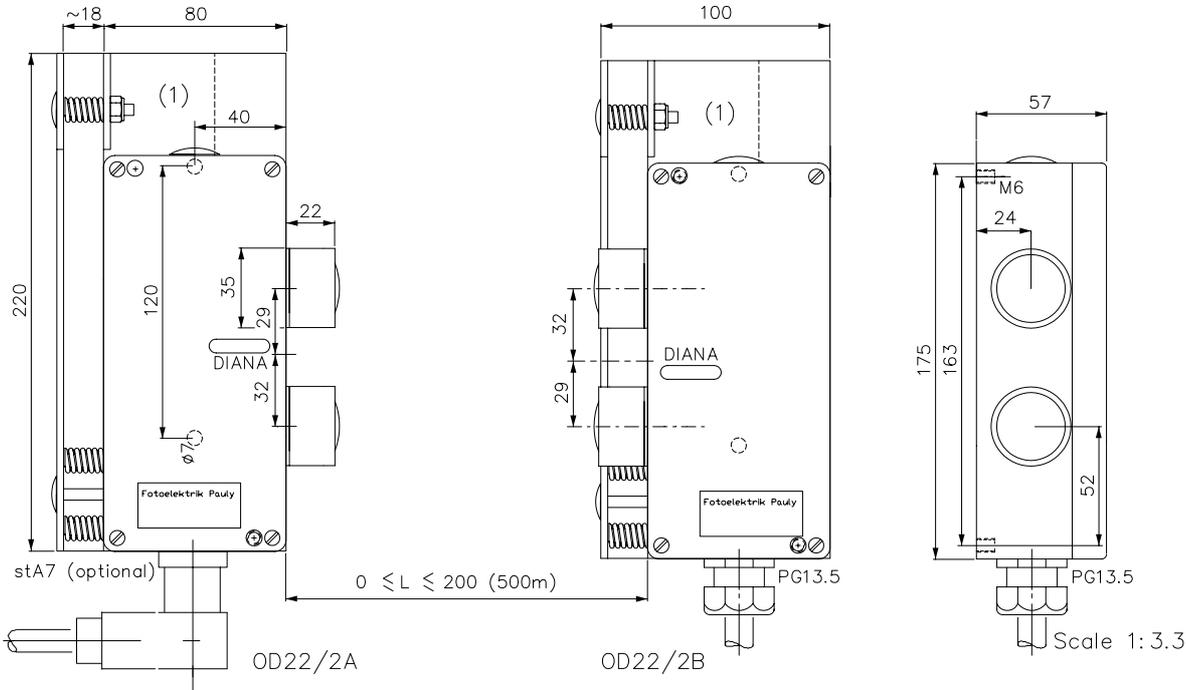


Optical Data Transmission OD22/2



Technical Characteristics:

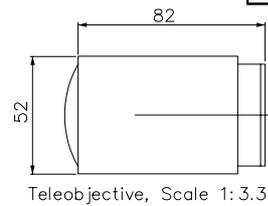
Housing	Al-Cast
Weight	2x approx. 900g
Protection mode	IP65
Connection	2x7-pole terminal strip
Supply	24VDC/180mA DC
Data output term.3-4	Optocoupler connected
Residual voltage U_{CE}	< 2.7V at $I_C=20mA$
Data input term.5-6	Optocoupler 7-30mA
Data input voltage	3.3-4.5V for $7 \leq I_E \leq 11mA$ 4.5-6.6V for $11 \leq I_E \leq 30mA$
Data rate b	$0 \leq b \leq 20 \times 10^3$ baud
Transmitting light	GaAs 880nm, invisible quartz crystall stabilized
Range	200m, Teleobjective(t): 500m
Steady light resistance	>80kLx
Level indicator	DIANA
Pollution warning outp. from signal reserve	$\leq 5, VK$ pnp open coll., 60mA. sc-protected
Operating temperature	-25...+60°C**

Special Design:

Interfaces RS232 or RS422
 Connection 6+1-pole plug stA7
 Heat-protected optical system, pl
 Teleobjective OD22/2, t
 expanded beam spread angle
 reduced beam spread angle
 Red light transmitter

L m	d m	
	Normal- objective	Tele- objective
10	0.5	0.25
30	1.5	0.75
100	5	2.5
200	10	5
300	(15)	7.5
500	(25)	12.5

Light cone diameter "d"
 as a function of the
 distance "L".



*up to -40°C during on-period conditions

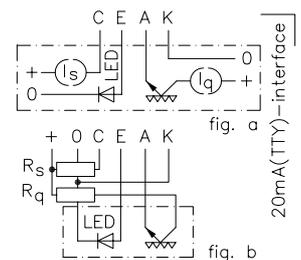
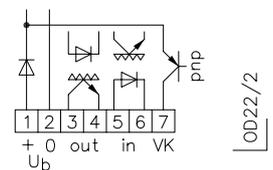
**higher temperatures can shorten live expectancy but only temperatures >120°C diminish function.

Accessories:

- 4713 DE (18.02.05 m.i)
- E_4713 1 (09.10.96 tb)
- (02.07.02 tb)
- Adjusting flange R27SH (1)
- Anti dust tubes
- Cooling water flange KW 27
- Diaphragms
- Optical filters

Notes on wiring:

The data input (term. 5-6) must be fed from a data source which supplies a data current I_q of a minimum 7 and maximum 30 mA. The data output (term. 3-4) supplies a switchable signal which is limited by the data sink (LED) of the switched-on interface (dot-dash line) to one(s) of a maximum 30 mA (fig. a). * If the interface looks like that in fig. b, the resistors R_s & R_q must be looped in. The dimensioning is decided by the relevant parameters in the specifications.* One often finds interfaces which have a source as in fig. a and a sink as in fig. b.* The second terminal block located in the OD22/2 has wiring identical to that in the first and can be used for wiring with resistors and bridges.
 E_4713.1.TXT



U_b : operating voltage OD22/2
 I_q/I_s : control current source/sink
 R_q/R_s : protective resistor source/sink