PAULY

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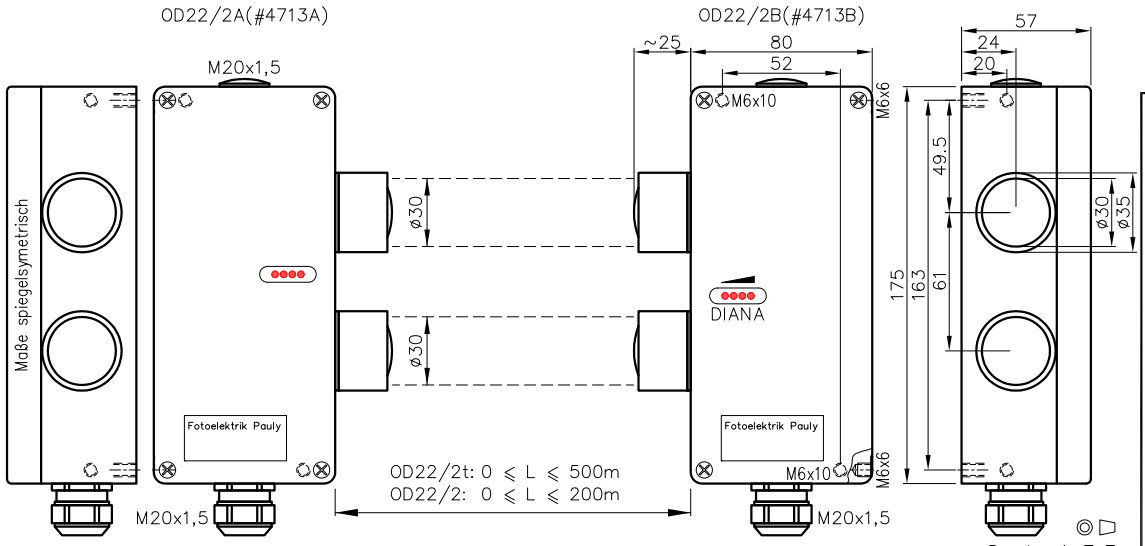
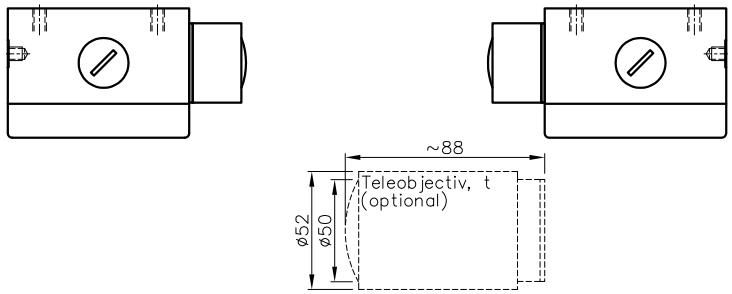
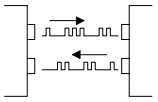
Optical Data Transmission OD22/2





L m \ ø m	Normal- objectiv	Tele- objectiv
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 "ø" as a function of the distance "L"



0-200(500)m

Optical Data Transmission duplex

OD22/2

Order no.:

4713

Technical characteristics:

Housing	Al-Cast
Weight	approx. 900g each dev.
Protection mode	IP65
Connection	Terminal block
Supply	24VDC/180mA without load
Data output term. 3-4	Optocoupler
Residual voltage Uce	<2,7V @ Ic=20mA
Data input term. 5-6	Optocoupler 7...30mA
Data input voltage	3,3...4,5V @ 7 ≤ Ie ≤ 11mA
	4,5...6,6V @ 11 ≤ Ie ≤ 30mA
Data rate	0...20kBaud
Transmitter light	LED 850...880nm, invisible
Steady light resistance	>80kLx
Pollution warning outp.	pnp 60mA s.-c.-prot., < 5x operating reserve
Level indicator	4x LED red
Operating temperature	-25*...+60°C

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

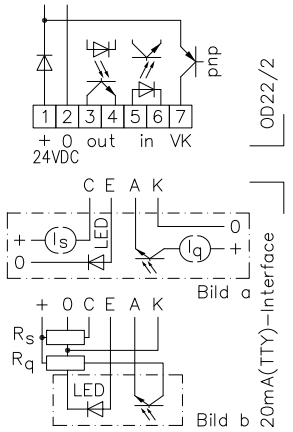
Features:

Interface	RS232, RS422
Teleobjectives	OD22/2t

Heatprotected transducersystem, pl
If using cooling water flange, then milled wall, y
expanded or reduced beam spread angle
Red light transmitter, rl

Notes on wiring:

The data input (term. 5-6) must be fed from a data source which supplies a data current Iq 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 Is of a maximum 30 mA (fig. a). * If the interface looks like that in fig. b, the resistors Rs & Rq 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.



I_q/I_s: control current source/sink
R_q/R_s: series resistor source/sink

Accessories:

Heavy adjustment flange R27SH
Elbow tube adjustment AD27SS2
Anti dust tubes TUB46
Cooling water flange KW27
Diaphagms
Optical filters

4713 DE (18.02.05 mj)
E_ 4713 1 (14.04.05 tb)
(26.09.96 jp) 23.08.18 tb
(02.07.02 tb)

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