PAULY

Optical Data Transmission, Bidirectional, Full-Duplex, Parallel

Type OD908

M6x6

T :

Redlight, visible!

R :

90   62

73

M6x6

Plug: stDS25

OD908B

65
45   6

R :

T :

8 LED's (Output)

10 LED's (DCD,8xInput,lx)

1

ø5.2

ø4.3

88

0 ≤ L ≤ 3m (12m)

OD908A

30

25

32

M6x6

33

M6x8

115

Scale 1:2.5
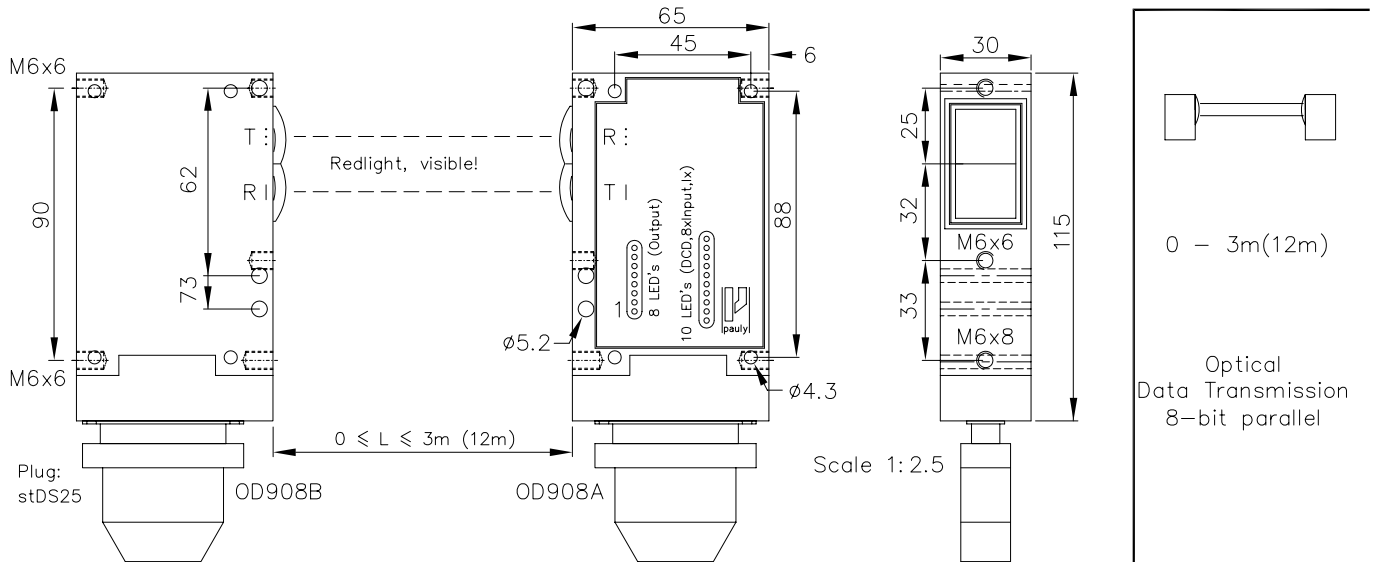
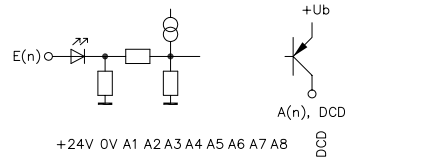0 — 3m(12m)

Optical
Data Transmission
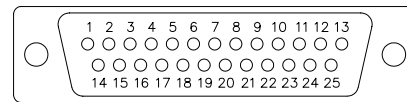8-bit parallel

OD908

Order no.

4731

Mode of operation:

The DCD-output is open, when the light beam between "A"- and "B"-appliance is interrupted (LED off). If the light path is free, the DCD-outputis switched to 24V (LED on). In case of light path is free, each unit transmits in auto-repeat mode the logical states of the 8 input lines to its opposite unit and passes on the logical states received from there to its 8 PNP outputs.   E_ 4731 1.TXT

Technical Characteristics:

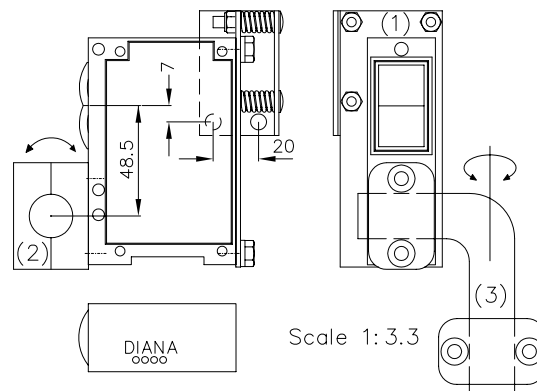|	
Housing	Al-Cast
Weight	each approx. 300 g
Protection mode	IP65
Connection	D-Sub-25
Power supply	24VDC/~110mA without load
Data inputs	0..7V=L, 15..30V=H (galv)
Data outputs	pnp 50mA, s.-c.-protected
Transmitting light	GaAs 650nm, visible
Steady light resistance	>30kLx
Mode of transmission	full duplex
Mode of operation	auto repeat (<5 ms)
Interference suppression	parity and bit comparison
Rate of transmission opt.	serial > 20 kBit/s
Rate of transmission 8-bit	> 200 bytes/s
Delay time	ca. 1.5ms
Light-beam dia. transmitter	approx. 70 mm/3 m
receiver	approx. 200 mm / 3 m
Signal indicator	LED's in inputs / outputs
Ambient temperature	−25...+60°C

Accessories:

Adjustment flange JF19H(1)
Elbow tube adjustment JR19(2&3)
Cooling water flange KW19
Heat shield & anti-dust tube (K)JT19
Diaphragms
Special filters

Basic circuit diagram
input

Basic circuit diagram
control output

+Ub

E(n)

A(n), DCD

+24V 0V A1 A2 A3 A4 A5 A6 A7 A8

DCD

1 2 3 4 5 6 7 8 9 10 11 12 13

14 15 16 17 18 19 20 21 22 23 24 25

E1 E2 E3 E4 E5 E6 E7 E8

Plug flange with pins

scale: 1:1

Special versions:

Range	12m, #4731M05
Level indicator	DIANA, i
Special functions on request:	

Adjustment Assemblies:

7

48.5

20

DIANA

(1)

(2)

(3)

Scale 1:3.3