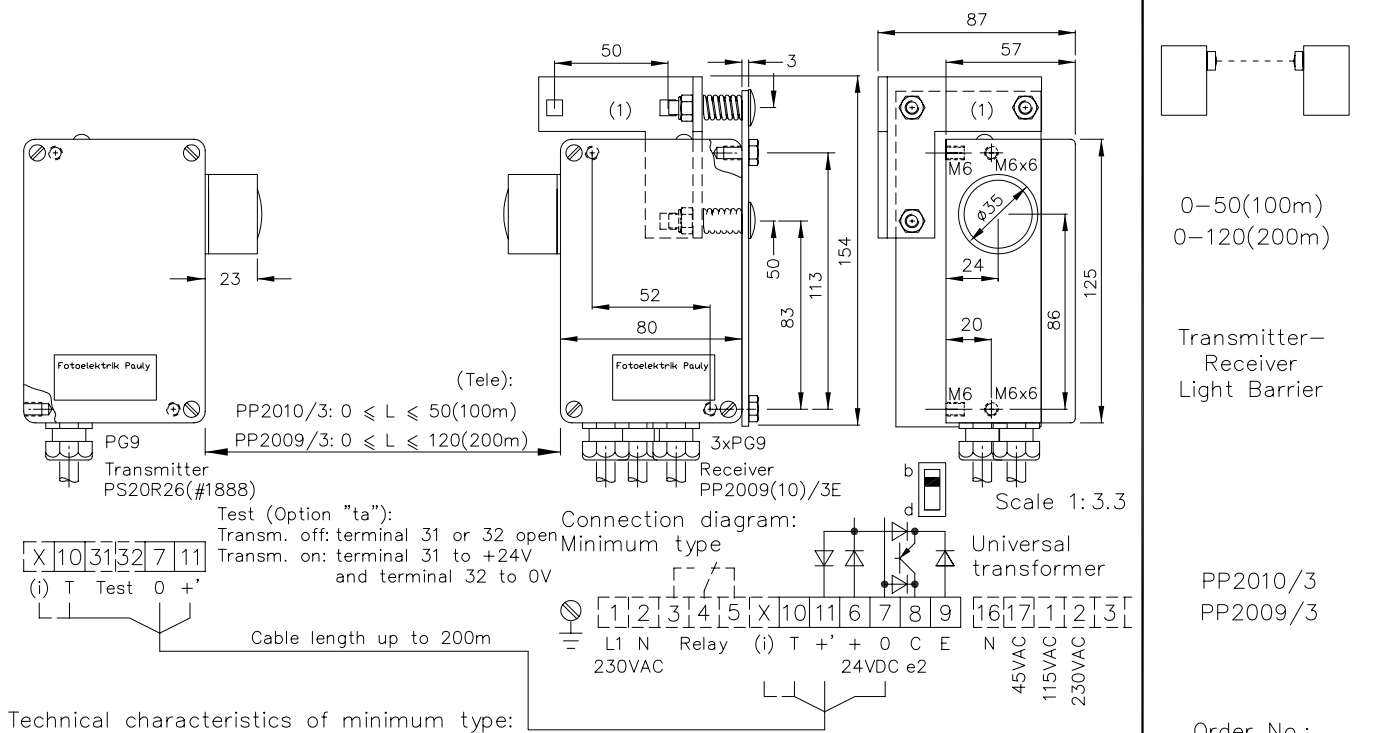


## Transmitter-Receiver Light Barrier Types PP2010/3 & PP2009/3



|                         |   |
|-------------------------|---|
| Housing                 | Al-Cast   |
| Weight                  | Receiver: approx. 700g<br>Transmitter: approx. 500g |
| Protection mode         | IP65  |
| Connection              | Terminal block                                      |
| Supply                  | 24VDC/60mA without load                             |
| Output                  | pnp 60mA s.c.-prot., e2                             |
| Signal Mode             | Bright-/darkswitching, selectable                   |
| Transmitter light       | GaAs 880nm, invisible                               |
| Steady light resistance | PP2009/3: >80kLx<br>PP2010/3: >100kLx               |
| Interference suppressor | Force synchronization                               |
| Access time             | <12ms/switch transition                             |
| Switching frequency     | electron.: 40/s; Relay: 10/s                        |
| Switch indicator        | LED, receiver                                       |
| Working indicator       | LED, transmitter                                    |
| Ambient temperature     | -25...+60°C   |

|   |  |
|---|--|
| <b>Features:</b>  |  |
| Connection  | 4+1 pin Plug stA5<br>6+1 pin Plug stA7<br>5+1 wire No.-Cable K6<br>2x3 wire No.-Cable 2K3  |
| Supply  | 24...80VDC<br>230VAC, 115VAC, 42...48VAC, 24VAC or 230/115/45VAC with universal transformer  |
| Output  | Relay 250VAC/10A, 2500VA, 1xCh, R<br>npn 60mA s.-c.-prot., e3<br>Optocoupler 60V/50mA, e1<br>if req. 2xe2 or 2xe3 or antival. e4 or e5 |
| Access time   | "q": <2ms/Switch transition  |
| Switching rate  | "q": 300/s, Relay: 10/s  |
| Time delay  | 0-10s, switching-on-off-delay, separately adjustable, z10  |
| Level indicator   | DIANA, i   |
| Lev. ind. f. Trans.   | DIANA Receiver: i-i; Transmitter: ii   |
| Teleobjectives, t   |  |
| Heat protected transductor system, pl                       |  |
| If using cooling water flange, then milled wall, y          |  |
| PV2010/3 & PV2009/3: Pollution warning output               |  |
| PU2010/3 & PU2009/3: 'intelligent' Pollution warning output |  |

1611 DE  
E\_1611\_1  
(18.01.00 tb)  
(15.05.02 gs)  
(17.02.05 m)  
(10.11.98 tb)  
(14.04.05 m)

**Accessories:**

- Diaphragms
- Optical filters
- Adjustment flange JF26H (1)
- Heavy adjustment flange R26SH
- Elbow tube adjustment AD26SS1 or AD26SS2
- Cooling water flange KW26
- Anti dust tube TUB46

Integrated protection system KJT26 or KRT26\*

\* Including: cooling by water, adjustment, anti dust tube (optional: diaphragms, optical filter)

**Note:**

Lightbarriers of types PP2010(09)/3 are compatible in function with types PP2010(09)/2. Please note the different terminal designations.

PP2010(09)/2: terminal 11 (+) ≙ terminal 11 (+)  
terminal 12 (T) ≙ terminal 10 (T)  
terminal 13 (0V) ≙ terminal 7 (0V)