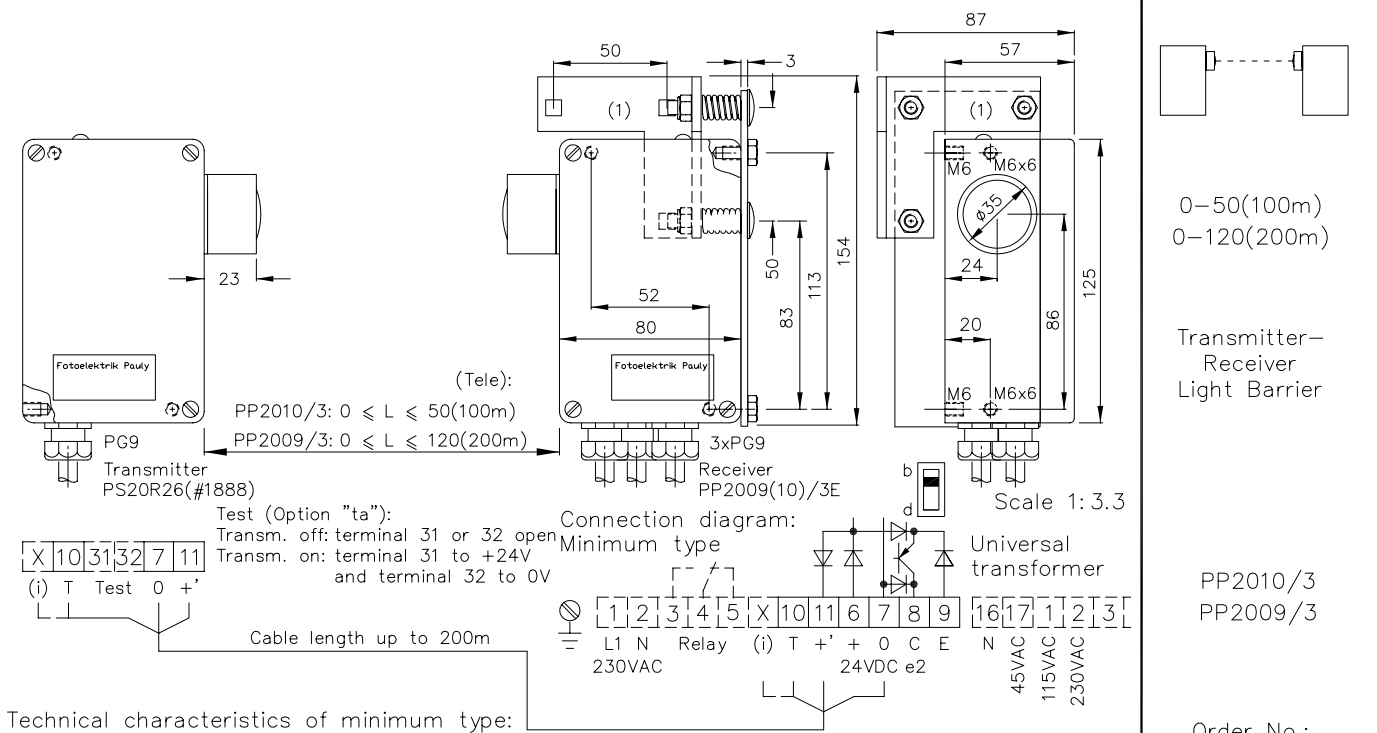


## Transmitter-Receiver Light Barrier Types PP2010/3 & PP2009/3



Housing	Al-Cast
Weight	Receiver: approx. 700g 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 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

Features:	
Connection	4+1 pin Plug stA5 6+1 pin Plug stA7 5+1 wire No.-Cable K6 2x3 wire No.-Cable 2K3
Supply	24...80VDC 230VAC, 115VAC, 42...48VAC, 24VAC or 230/115/45VAC with universal transformer
Output	Relay 250VAC/10A, 2500VA, 1xCh, R npn 60mA s.-c.-prot., e3 Optocoupler 60V/50mA, e1 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)  
 (18.07.94 tb)  
 (10.11.98 tb)  
 (17.02.05 m)  
 (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)