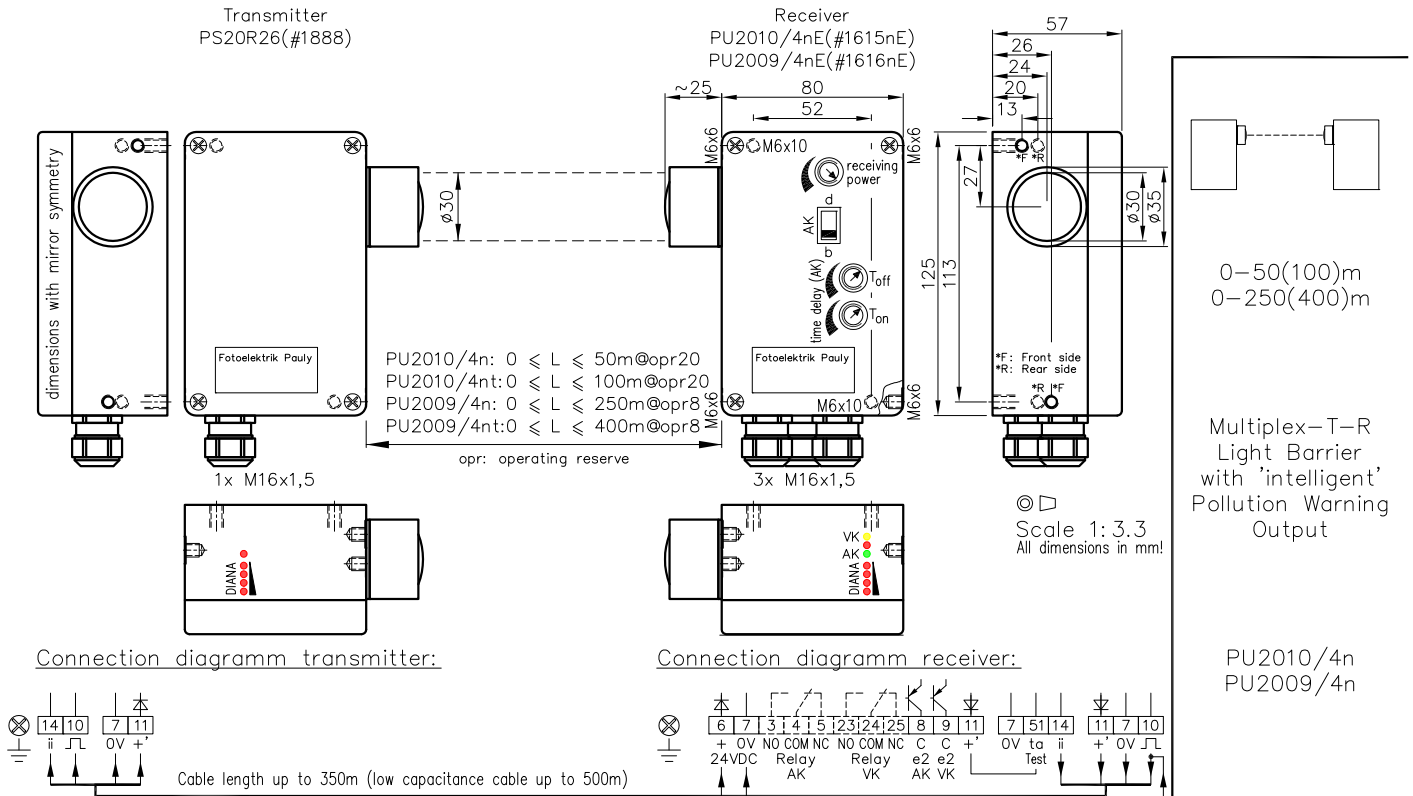


Multiplex-Transmitter-Receiver Light Barrier Types PU2010/4n & PU2009/4n with 'intelligent' Pollution Warning Output



Connection diagram transmitter:

Connection diagram receiver:

Technical characteristics:

Housing	Al-Cast
Weight	Receiver: approx. 700g Transmitter: approx. 500g
Protection mode	IP65
Connection	Terminal block
Supply	24VDC/90mA without load
Output	2x pnp 60mA s.-c.-prot., e2
Signal mode	bright-/darkswitching, selectable (only AK)
Transmitter light	LED 850...880nm, invisible
Steady light PU2009/4n:	>80kLx
resistance PU2010/4n:	>100kLx
Interference suppressor	Force synchronization
Access time	<12ms/switch transition
Switching rate	electron.: 40/s; Relay: 10/s
Switch indicator (receiver)	LED's green, red & yellow
Working indicator (transm.)	LED red
Level indicator (t & r)	4x LED red
Ambient temperature	-25...+60°C
Testing by transmitter blanking, ta	

Accessories:

- Multiplex control device, e.g. PP9032
- Diaphragms BLD35...
- Optical filters
- Adjustment flange JF26H
- 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, diaphragms, optical filter

Connection diagram optocoupler (e1, optional):

Features:

Connection	Plug, no.-cable
Output	2x Optocoupler 60V/50mA, e1 2x Relay 250VAC/10A, 2500VA, 1xCh, R
Access time	"q": <2ms/switch transition
Switching rate	"q": 300/s, Relay: 10/s
Time delay	Switching-on-off-delay, separately adjustable (only AK), z...
	If using cooling water flange, then milled wall, y
	Heatprotected transducersystem, pl
	Teleobjectives, PU20../4nt

Notes:

Outputs: The switching equipment for the Pollution Warning Output (VK, yellow LED) is switched if, subsequent to an interruption in light beam (red LED on) and the light path being free again (AK, green LED on), dirt or clogging causes the signal level to be under five times the minimum level (red and green LED on) and the light beam is then interrupted again. At this point in time, the light barrier is still fully functional. As soon as dirt has been removed (green LED on, red LED off), the dirt indicator (yellow LED) switches off.

Terminal blocks: Cage clamp; Stripped conductor length 8...9mm; Conductor cross section 0,25...2,5mm² (with insulated ferrule up to 1,5mm² only); actuated by screwdriver 2,5x0,4mm.

Testing function ("ta", terminal 51): Transmitter activated by +24V; Transmitter deactivated by 0V or nc. To use this function remove wire bridge between terminal 11 & 51.

1616n DE (05.11.14 tb)
E_1616n (07.11.17 tb)
(26.04.13 tb) 03.05.18 tb
(04.12.13 tb)