PAULY

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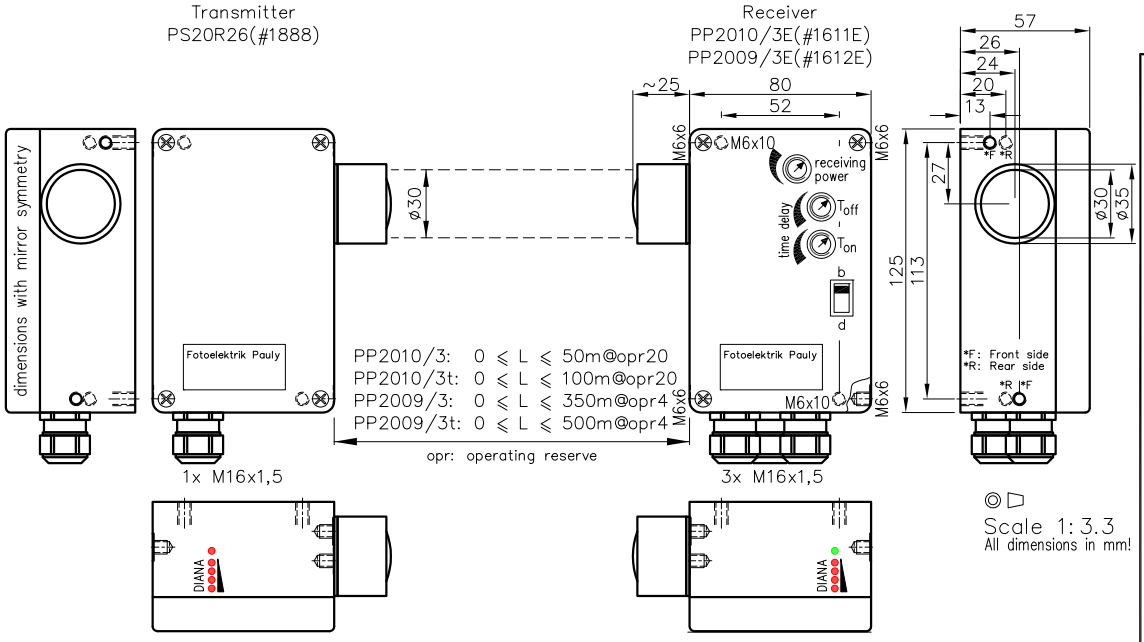
Transmitter-Receiver Light Barrier Types PP2010/3 & PP2009/3



0-50(100)m
0-350(500)m

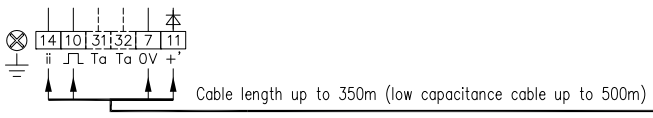
Transmitter-Receiver Light Barrier

PP2010/3
PP2009/3

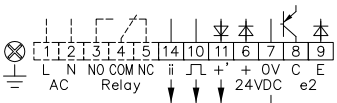
Order no.:

1611
1612

Connection diagramm transmitter:



Connection diagramm receiver:



Connection diagramm optocoupler (e1, optional):

Technical characteristics:

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	LED 850...880nm, invisible
Steady light PP2009/3:	>80kLx
resistance PP2010/3:	>100kLx
Interference suppressor	Force synchronization
Access time	<12ms/switch transition
Switching rate	electron.: 40/s; Relay: 10/s
Switch indicator (receiver)	LED green
Working indicator (transm.)	LED red
Level indicator (t & r)	4x LED red
Ambient temperature	-25...+60°C

Features:

Connection	Plug, no.-cable
Supply	230VAC, 115VAC, 42...48VAC
Output	Optocoupler 60V/50mA, e1
	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, PP20../3t
Testing by transmitter blanking, ta

PV2010(09)/4	Pollution warning output
PU2010(09)/4	'intelligent' Pollution warning output

Accessories:

Diaphagms 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, diaphagms, optical filter

Notes:

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 option ("ta", terminals 31 & 32):
Transmitter activated by terminal 31 to +24V and terminal 31 to 0V
Transmitter deactivated by terminal 31 or 32 not connected.

1611 DE (18.01.00 tb) (27.10.10 tb) 22.02.18 tb
E 1611 1 (15.05.02 gs) (28.01.11 tb)
(18.07.94 tb) (17.02.05 mj) (06.09.11 tb)
(10.11.98 tb) (14.04.05 mj) (04.12.13 tb)

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