



SCANNING DISTANCE

110 und
400 mm

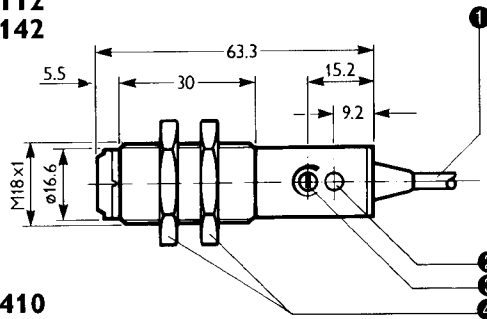


Features:

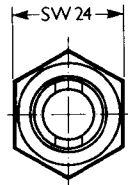
- Supply connection reverse-polarity protected
- LED status indicator
- Built-in switching amplifier
- Light- and dark-switching (L/D control wire)
- Adjustable sensitivity
- No false triggering on power-up
- Metal housing
- Output with over-current protection
- With connecting cable or plug
- Simple fitting
- Right-angle adapter (accessories)
- CE /

VT 180

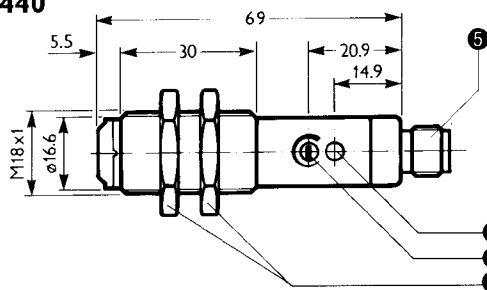
-N/-P 112
-N/-P 142



Dimensions in mm

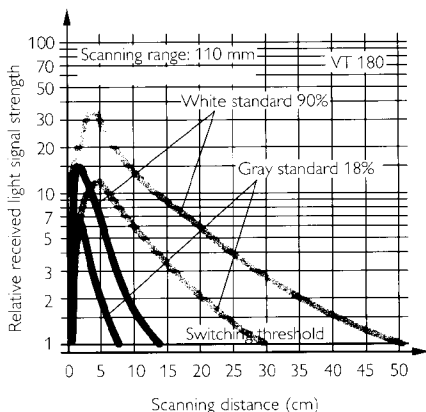


-N/-P 410
-N/-P 440



- 1 Connecting cable
- 2 Status indicator
- 3 Sensitivity control (270 °-potentiometer, not with polarizing-filter version)
- 4 Mounting nuts
- 5 M 12 plug, 4-pin (cable connector see page 286)

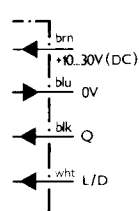
WIV-V 180-T 110 for scanning distance 110 mm: Part No. 5 305 534
WIV-V 180-T 400 for scanning distance 400 mm: Part No. 5 305 535
For right-angle adapter (accessories), see page 288



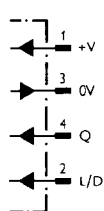
Connection Diagram

VT 180

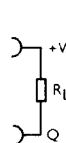
-N/-P 112
-N/-P 142



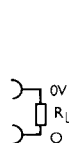
-N/-P 410
-N/-P 440



N



P



wht	blk	blu	brn
white	black	blue	brown

light-switching

dark-switching

VT 180

PHOTOELECTRIC PROXIMITY SWITCH

VT180

Scannig distance 110mm Scannig distance 400mm

Model with connecting cable	-P 112	-N 112	-P 142	-N 142
Part No.	6008 787	6008 788	6008 791	6008 792
Model with plug	-P 410	-N 410	-P 440	-N 440
Part No.	6008 789	6008 790	6008 793	6008 794
Scanning distance, adjustable¹⁾	110 mm ²		400 mm ²	
Light spot diameter ³⁾	65 mm		30 mm	
Supply voltage V_S⁴⁾	10 to 30 VDC		10 to 30 VDC	
Power consumption (without load)	≤ 30 mA		≤ 30 mA	
Ripple max. ⁵⁾	5 V _{pp}		5 V _{pp}	
Light source	LED, infrared, modulated, average service life: 100,000 h ⁶⁾			
Light receiver switching mode	light- and dark-switching (L/D control wire ⁷⁾)		light- and dark-switching, (L/D control wire ⁷⁾)	
Switching outputs	PNP ⁸⁾	NPN ⁸⁾	PNP ⁸⁾	NPN ⁸⁾
Signal voltage HIGH	V _S - (≤ 1 V)	approx. V _S	V _S - (≤ 1 V)	approx. V _S
Signal voltage LOW	approx. 0 V	V _S - (≤ 1 V)	approx. 0 V	≤ 1 V
Output current max.	100 mA		100 mA	
Response time; switching frequency, max.	1,5 ms; 333/s		1,5 ms; 333/s	
VDE protection class	III ⁹⁾			
Enclosure rating	IP 66			
Circuit protection ⁹⁾	A, B, C		A, B, C	
Ambient operating temperature	– 25 to + 55 °C			
Storage temperature	– 40 to + 70 °C			
Connecting cable	2 m, 4 x 0,34 mm ² PVC Ø 5 mm		2 m, 4 x 0,34 ² mm PVC Ø 5 mm	
Weight with connecting cable	125 g			
Weight with plug	65 g			

- 1) Based on white standard 90 %
2) With right-angle adapter, the scanning distances are reduced from 110 mm to 100 mm and from 400 mm to 280 mm.
3) At scanning distance
4) Limit values
5) Must be within V_S tolerances
6) At room temperature = 25 °C

- 7) Control wire open
NPN = light-switching
PNP = dark-switching
8) Open collector
9) DC models
10) A = V_S connections reverse-polarity protected
B = output over-current protect
C = interference suppression