

Photoelectric sensors fork-type of labeling machines



fig.1

Operating principle

The photoelectric fork type sensor consists of one housing in which transmitter and receiver are located. The principle of operation is based on emitting and receiving a modulated light ray in the red area of the spectrum. It is used in labelling machines for positioning or counting of labels arranged on a transparent or translucent carrier strip. The distance between the labels should not be less than 1mm. The sensor can register labels moving with speed up to 200 pcs./sec. It has two outputs (NO+NC), which are protected from overload and short circuit. The output indicator of sensor lights when there is no label in the gap between the transmitter and the receiver.

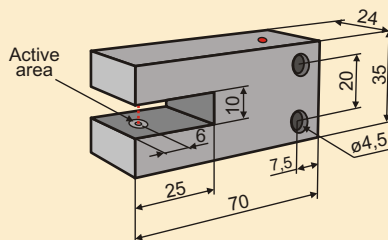
Technical parameters

Supply voltage, U_s	11...30VDC (Ripple $\pm 10\%$)
Output voltage(max), U_{out}	35VDC (open collector)
Residual voltage, U_{res}	0,8V ($I = 250mA$)
Load current (max), I_{out}	250mA
Protection of output (scanning), I_{prot}	350mA (25°C)
Operating temperature range, T_{amb}	-10...+50°C
Spectrum area of operating	640nm
Usable ambient light intensity (max)	1000Lx
Degree of protection	IP54
Light output indicator	LED
Joining - cable "LIYY" (grey)	4x0,25mm ² ; L=2m

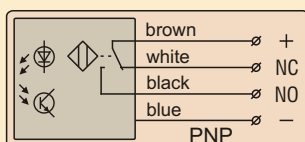
Type parameters

Type	Operating distance S_n /mm/	Output function	Output (transistor - open collector)	Sizes /mm/	Switching frequency(max) /Hz/	Current consumption I_s /mA/	Scheme of connection
<i>Plastic housing /U-shape/ - fig.1</i>							
OV3-70.10.RT	10	HO + H3	PNP	35 x 24 x 70	200	15	10
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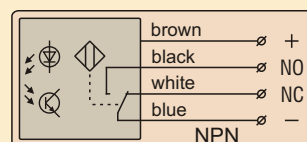
Sizes / mm /



Schemes of connection



Scheme 10



Scheme 20