

# Photoelectric sensors fork-type of labeling machines

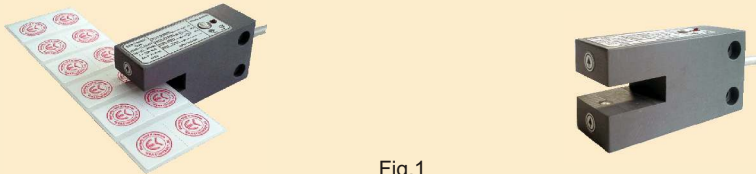


Fig.1

### 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.

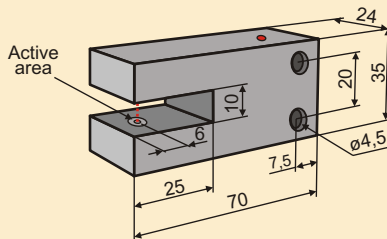
### Technical parameters

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 <sup>2</sup> ; L=2m

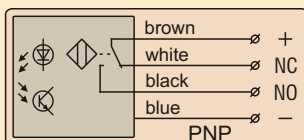
### Type parameters

Type	Operating distance $S_n$ /mm/	Output function	Output (transistor - open collector)	Sizes /mm/ D L	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
OV3-70.20.RT	10	HO + H3	NPN	35 x 24 x 70	200	15	20

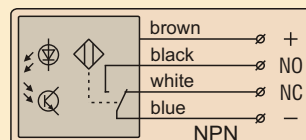
### Sizes / mm /



### Schemes of connection



Scheme 10



Scheme 20