



Optoelectronic sensor

Series 10 - PNP

Housing M5 x 0,5

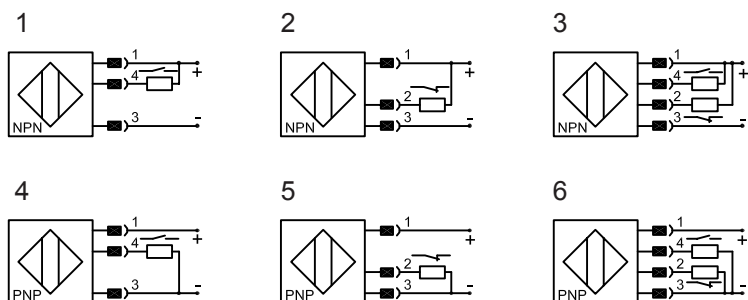
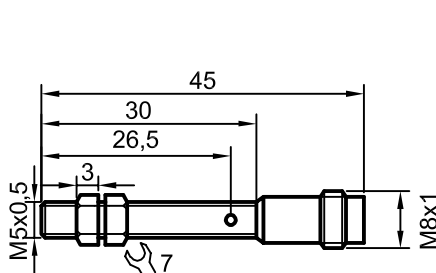
- Housing material: stainless steel VA
- Sensing range 50 mm
- With plug-in connector M8 x 1
- Energetic sensor



Certificate:

Technical data

Sensing range [mm], min. / max.	50 / 50
Transmitting range [m] with triple reflector	1
Electrical version	3-wire DC
Output function	NO
Typ PNP	IS-120-M5-10-S-Y7
Art.-No.	555 001
Connection diagram No.	4
Operating voltage (U_B)	10...30 V DC
Output current max. (I_o)	100 mA
Sender / Wavelength	IR-LED 880 nm
Extraneous light limit Halogen- / sunlight	5.000 / 10.000 Lux
Voltage drop max. (U_d)	2 V
Permitted residual ripple max.	< 20 %
No-load current (I_o)	typ. 10 mA
Frequency of operating cycles max.	250 Hz
Permitted ambient temperature	0...+55°C
LED-display	switching state: yellow no sufficient function reserves: yellow flashing
Protective circuit	built-in
Degree of protection IEC 529	IP 67
Connection	plug-in connector M8 x 1
Housing material	VA Nr. 1.4305
Active surface	glass
Lid	-



All specifications are subject to change without notice. (05/2006)



Optoelectronic sensor

Series 10 - PNP

Housing M12 x 1

- Housing material: brass
- Sensing range 0...300 mm adjustable
- With plug-in connector M12x1
- Energetic sensor

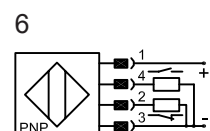
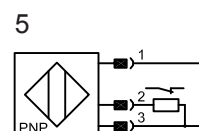
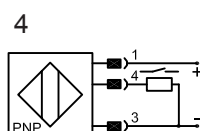
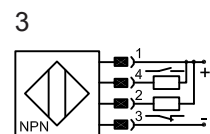
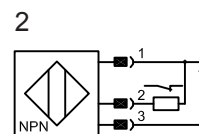
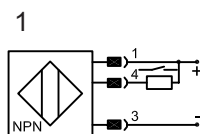
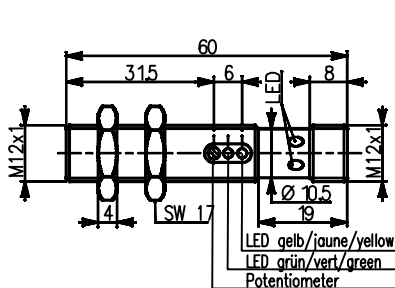


Certificate::

Technical data

Sensing range [mm], min. / max.	0 / 300
Transmitting range [m] with triple reflector	1
Electrical version	3-wire DC
Output function	NO
Typ PNP	IS-120-M12-10-S-Y5
Art.-No.	556 101
Connection diagram No.	4
Operating voltage (U_B)	10...35 V DC
Output current max. (I_e)	200 mA
Sender / Wavelength	LED red 660 nm
Extraneous light limit Halogen- / sunlight	5.000 / 10.000 Lux
Voltage drop max. (U_d)	2 V
Permitted residual ripple max.	10 %
No-load current (I_0)	typ. 15 mA
Frequency of operating cycles max.	1000 Hz
Permitted ambient temperature	-25...+55°C
LED-display	function reserves sufficient: green switching state: yellow
Protective circuit	built-in
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1
Housing material	brass
Active surface	glass
Lid	-

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Optoelectronic sensor

Series 10 - PNP

Housing M18 x 1

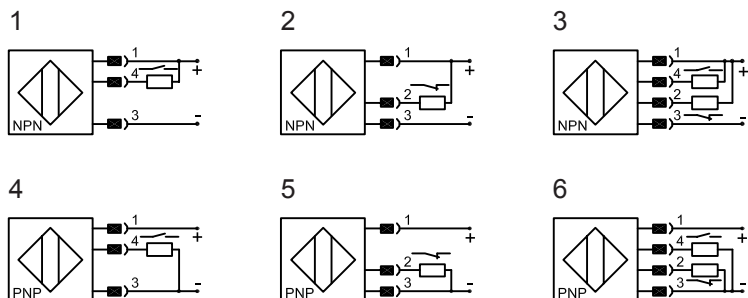
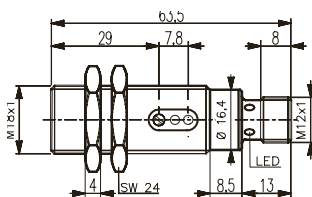
- Housing material: brass
- Sensing range 0...600 mm adjustable
- With plug-in connector M12 x 1
- Energetic sensor



Certificate:

Technical data

Sensing range [mm], min. / max.	0 / 600
Transmitting range [m] with triple reflector	4
Electrical version	3-wire DC
Output function	NO
Typ PNP	IS-120-M18-10-S-Y5
Art.-No.	557 101
Connection diagram No.	4
Operating voltage (U_B)	10...35 V DC
Output current max. (I_o)	200 mA
Sender / Wavelength	LED red 660 nm
Extraneous light limit Halogen- / sunlight	5.000 / 10.000 Lux
Voltage drop max. (U_d)	2 V
Permitted residual ripple max.	< 20 %
No-load current (I_o)	typ. 15 mA
Frequency of operating cycles max.	1000 Hz
Permitted ambient temperature	-25...+55°C
LED-display	function reserves sufficient: green switching state: yellow
Protective circuit	built-in
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1
Housing material	brass
Active surface	glass
Lid	-



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Optoelectronic sensor

Series 10 - PNP

Rectangular housing 30 x 30 x 15 mm

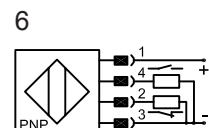
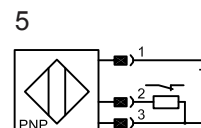
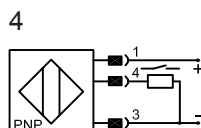
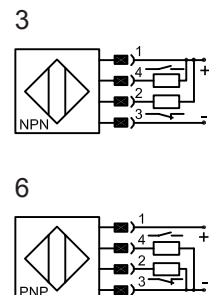
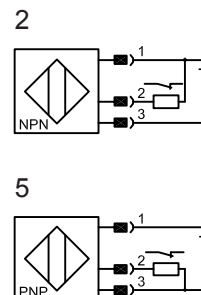
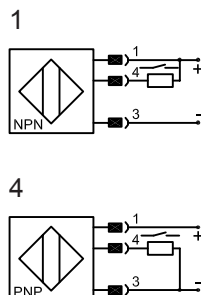
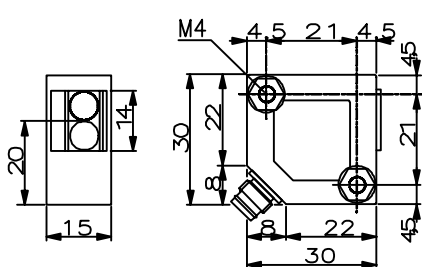
- **Housing material: PBTP**
- **Sensing range 1...1200 mm adjustable**
- **With plug-in connector M8 x 1**
- **Energetic sensor**

Certificate::

Technical data

Sensing range [mm], min. / max.	1 / 1200
Transmitting range [m] with triple reflector	4
Electrical version	4-wire DC
Output function	antivalent
Typ NPN	IS-120-C30-20-A-Y7
Art.-No.	559 443
Connection diagram No.	3
Typ PNP	IS-120-C30-10-A-Y7
Art.-No.	559 423
Connection diagram No.	6
Operating voltage (U_B)	10...35 V DC
Output current max. (I_e)	2 x 100 mA
Sender / Wavelength	IR-LED 880 nm
Extraneous light limit Halogen- / sunlight	5.000 / 10.000 Lux
Voltage drop max. (U_d)	2 V
Permitted residual ripple max.	20 %
No-load current (I_0)	typ. 15 mA
Frequency of operating cycles max.	1000 Hz
Permitted ambient temperature	-25...+55°C
LED-display	function reserves sufficient: green switching state: yellow
Protective circuit	built-in
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1
Housing material	PBTP
Active surface	glass
Lid	-

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Optoelectronic sensor

Series 10 - PNP

Rectangular housing 30 x 30 x 15 mm

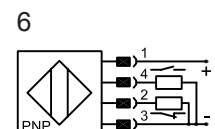
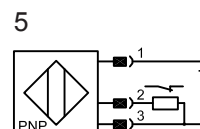
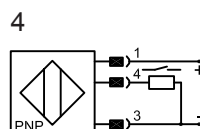
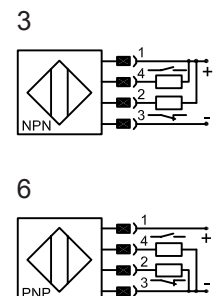
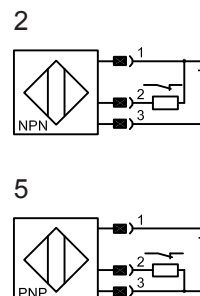
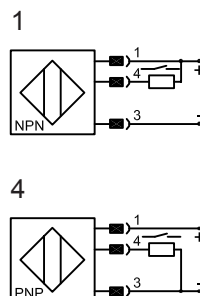
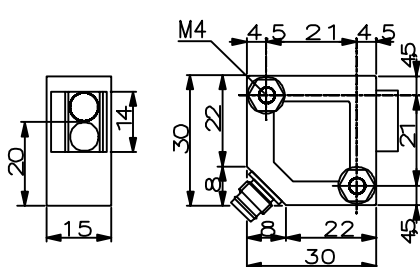
- Housing material: PBTP
- Sensing range 15...150 mm adjustable
- With plug-in connector M8 x 1
- Light sensor with background suppression



Certificate:

Technical data

Sensing range [mm], min. / max.	15 / 150
Transmitting range [m] with triple reflector	-
Electrical version	3-wire DC
Output function	NO
Typ PNP	IS-120-C30H-10-S-Y7
Art.-No.	559 422
Connection diagram No.	4
Operating voltage (U_B)	10...35 V DC
Output current max. (I_e)	200 mA
Sender / Wavelength	LED red 660 nm
Extraneous light limit Halogen- / sunlight	5.000 / 10.000 Lux
Voltage drop max. (U_d)	2 V
Permitted residual ripple max.	20 %
No-load current (I_0)	typ. 25 mA
Frequency of operating cycles max.	500 Hz
Permitted ambient temperature	-25...+55°C
LED-display	function reserves sufficient: green switching state: yellow
Protective circuit	built-in
Degree of protection IEC 529	IP 65
Connection	plug-in connector M8 x 1
Housing material	PBTP
Active surface	glass
Lid	-



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Optoelectronic sensor

Series 10 - PNP

Housing M18 x 1

- Housing material: brass
- Sensing range 10...120 mm adjustable
- With plug-in connector M12 x 1
- Light sensor with background suppression

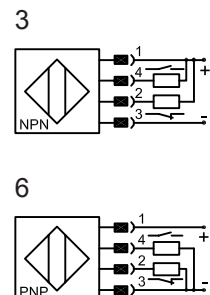
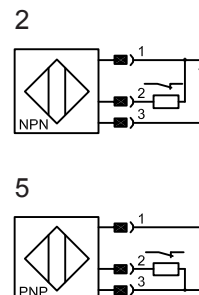
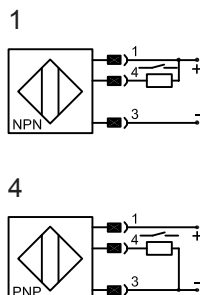
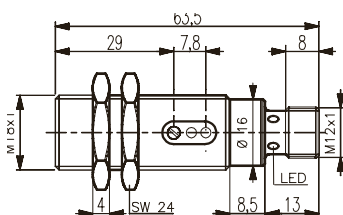


Certificate::

Technical data

Sensing range [mm], min. / max.	10 / 120
Transmitting range [m] with triple reflector	-
Electrical version	3-wire DC
Output function	NO
Typ PNP	IS-120-M18H-10-S-Y5
Art.-No.	557 102
Connection diagram No.	4
Operating voltage (U_B)	10...35 V DC
Output current max. (I_e)	200 mA
Sender / Wavelength	LED red 660 nm
Extraneous light limit Halogen- / sunlight	5.000 / 10.000 Lux
Voltage drop max. (U_d)	2 V
Permitted residual ripple max.	< 20 %
No-load current (I_0)	typ. 25 mA
Frequency of operating cycles max.	500 Hz
Permitted ambient temperature	-25...+55°C
LED-display	function reserves sufficient: green switching state: yellow
Protective circuit	built-in
Degree of protection IEC 529	IP 67
Connection	plug-in connector M12 x 1
Housing material	PBTP
Active surface	glass
Lid	-

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TYPE SELECTION IN ARTICLE ORDER

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559422	IS-120-C30H-10-S-Y7	12
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TYPE SELECTION IN TYPE DESCRIPTION ORDER

Art.-No.:	Description	Page
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559422	IS-120-C30H-10-S-Y7	12
555001	IS-120-M5-10-S-Y7	8
556101	IS-120-M12-10-S-Y5	9
557101	IS-120-M18-10-S-Y5	10
557102	IS-120-M18H-10-S-Y5	13