

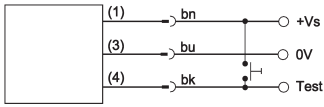
article-no.	PS130070	PS130071	PS130072
version	through-beam transmitter	through-beam transmitter	through-beam transmitter
range	1.5m	1m	6m
article-no.	PE130170	PE130171	PE130172
version	through-beam receiver	through-beam receiver	through-beam receiver
output	pnp, dark-on mode npn, light-on mode	pnp, dark-on mode npn, light-on mode	pnp, dark-on mode npn, light-on mode
TECHNICAL DATA			
range	1.5m	1m	6m
aperture	0.5mm	0.3mm	2.0mm
resolution *	typ. 0.1mm	typ. 0.1mm	typ. 0.1mm
output *	pnp, dark-on mode npn, light-on mode	pnp, dark-on mode npn, light-on mode	pnp, dark-on mode npn, light-on mode
operating voltage	12 ... 32V DC	12 ... 32V DC	12 ... 32V DC
current consumption (w/o load)	≤ 60mA (transmitter) ≤ 30mA (receiver)	≤ 60mA (transmitter) ≤ 30mA (receiver)	≤ 60mA (transmitter) ≤ 30mA (receiver)
output current (max. load) *	100mA	100mA	100mA
voltage drop (max. load) *	2.0V DC	2.0V DC	2.0V DC
transmitting element (pulsed)	laser LED	laser LED	laser LED
wavelength	670nm, red light	670nm, red light	670nm, red light
laser class	1	1	1
switching frequency *	1kHz	1kHz	1kHz
display (signal) *	yellow LED	yellow LED	yellow LED
display (operation)	green LED	green LED	green LED
repeat accuracy *	5µm	3µm	20µm
test input	+	+	+
short-circuit protection	+	+	+
reverse polarity protection	+	+	+
dimensions	12x64x14mm	12x64x14mm	12x64x14mm
length (thread/complete)	- / 64mm	- / 64mm	- / 64mm
housing material	nickel-plated brass	nickel-plated brass	nickel-plated brass
lens material	glass	glass	glass
operating temperature	-20 ... +50°C	-20 ... +50°C	-20 ... +50°C
degree of protection (EN 60529)	IP67	IP67	IP67
connection	M8-connector, 3-pin	M8-connector, 3-pin	M8-connector, 3-pin
connection accessories	e.g. VK200075 PUR, angular	e.g. VK200075 PUR, angular	e.g. VK200075 PUR, angular
mounting accessories	bracket: AP000019 flange: AP000020	bracket: AP000019 flange: AP000020	bracket: AP000019 flange: AP000020
* only receiver			

article-no.	PS130075	PS130076
version	through-beam transmitter	through-beam transmitter
range	5m	1m
article-no.	PE130175	PE130176
version	through-beam receiver	through-beam receiver
output	pnp, light-on mode npn, dark-on mode	pnp, light-on mode npn, dark-on mode
TECHNICAL DATA		
range	5m	1m
aperture	1.0mm	0.7mm
resolution *	typ. 0.1mm	typ. 0.5mm
output *	pnp, light-on mode npn, dark-on mode	pnp, light-on mode npn, dark-on mode
operating voltage	12 ... 32V DC	12 ... 32V DC
current consumption (w/o load)	≤ 60mA (transmitter) ≤ 30mA (receiver)	≤ 60mA (transmitter) ≤ 30mA (receiver)
output current (max. load) *	100mA	100mA
voltage drop (max. load) *	2.0V DC	2.0V DC
transmitting element (pulsed)	laser LED	laser LED
wavelength	670nm, red light	670nm, red light
laser class	1	1
switching frequency *	1kHz	1kHz
display (signal) *	yellow LED	yellow LED
display (operation)	green LED	green LED
repeat accuracy *	10µm	7µm
test input	+	-
short-circuit protection	+	+
reverse polarity protection	+	+
dimensions	12x64x14mm	12x64x14mm
length (thread/complete)	- / 64mm	- / 64mm
housing material	nickel-plated brass	red anodized aluminum
lens material	glass	plastic
operating temperature	-20 ... +50°C	-20 ... +50°C
degree of protection (EN 60529)	IP67	IP67
connection	M8-connector, 3-pin	M8-connector, 3-pin
connection accessories	e.g. VK200075 PUR, angular	e.g. VK200075 PUR, angular
mounting accessories	bracket: AP000019 flange: AP000020	bracket: AP000019 flange: AP000020
* only receiver		



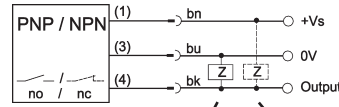
connection

through-beam transmitter

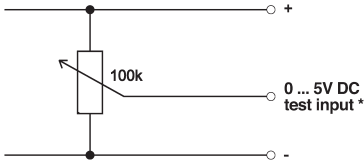


wire colors: bn = brown (1), bu = blue (3), bk = black (4)

through-beam receiver



PNP dark-on mode NPN light-on mode Do not connect simultaneously!



test input (* not for PS130076)

The transmitting power can be controlled via the test input of the transmitter!
 test input **0V**: transmitting power **100%**
 test input **0V to 5V**: transmitting power **100% to 0% continuously adjustable**

Voltages at the test input exceeding **5V** will cause the transmitter to be **switched off!**
 In case of an open test input the transmitting power is approx. 60%.

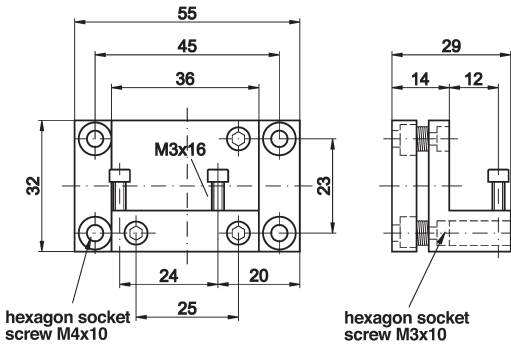
Caution! Laser Radiation!
Do not stare into the beam!



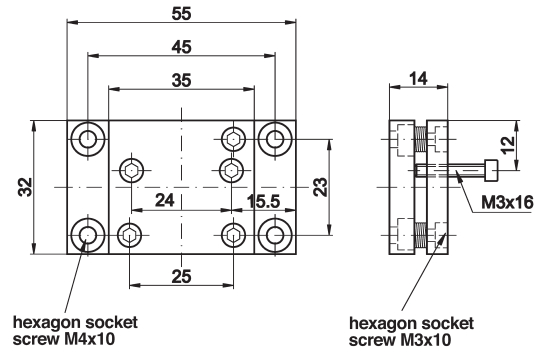
laser diode

wavelength 670nm
 max. output power < 1mW
laser class 1

angle AP000019



flange AP000020



For an exact adjustment of the laser beam, the laser transmitter should be mounted on an angle or a flange!

article-no.	description	
AP000019	accessory laser, precision bracket for alignment,	aluminum
AP000020	accessory laser, precision flange for alignment,	aluminum

This data sheet contains the standard versions only. Kindly request the availability of other output and connection versions.

We will be pleased to supply the matching cable socket for your devices with connector. Please refer to the list in catalog chapter „accessories“ under „cable sockets ipf-SENSORFLEX®“ or search our website for „VK“.

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

This data sheet as well as your personal contact can be found at www.ipf-electronic.com