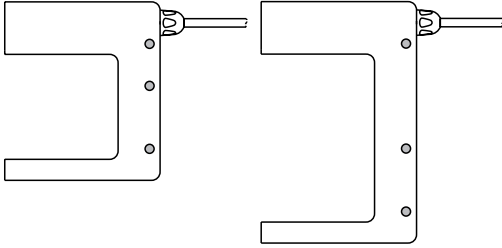


Photoelectric Sensors

Stainless Steel Slot Sensors



Slot sensor	Slot wide	Light type
PSUFR-0P-5F	50 mm	red light
PSUFR-0P-6F	80 mm	red light

Safety Notes



These photoelectric sensors may not be used in applications where personal safety depends on proper function of the devices (not safety designed per EU machine guideline). Read these operating instructions carefully before putting the device into service.



Exempt Group according to IEC 62471:2008.
DO NOT LOOK INTO THE LIGHT BEAM!
 The sensor must be installed so that no direct looking into the emitter is possible even during operation.

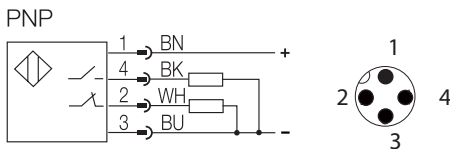


Caution!
 Do not look into the light beam.



The CE Marking confirms that our products conform to the EC Directives 2004/108/EEC (EMC) and the EMC Law. In our EMC Laboratory, which is accredited by the DATech for Testing of Electromagnetic Compatibility, proof has been documented that these products meet the EMC requirements of the harmonized standard EN 60947-5-2.

Wiring diagram, pinouts



1	BN	10...30 V
2	WH	Dark On
3	BU	GND
4	BK	Light On

Display elements on the connector

LED green: Power on indicator
 LED yellow: Output function indicator

Technical Data

Optical

Light type PSUFR 5F, 6F	Red light, 660 nm
Ambient light rejection	5 kLux

Electrical

Supply voltage UB	10...30 V DC
Voltage drop Ud at le	≤ 3 V
Effective operating current Ie	200 mA
No-load current IO	≤ 35 mA
Switching frequency f PSUFR 5F, 6F	3000 Hz
Hysteresis	≤ 0.05 mm
Short circuit protected	yes
Reverse polarity protected	yes
Output function	Pin 2 NC Pin 4 NO
Output function indicator Output 1 (Pin 4)	yellow LED
Power indicator	green LED
Smallest detectable object PSUFR 5F PSUFR 6F	0.8 mm 1.0 mm
Repeatability	0.025 mm
Function reserve PSUFR 5F PSUFR 6F	20 10

Mechanical

Connection type	Pigtail cable PUR 0.25 m with SV M12-connector, 4-pin
Housing material	Stainless steel 316L
Active surface material	PMMA
Weight PSUFx 5F PSUFx 6F	285 g 340 g
Housing dimensions PSUFx 5F PSUFx 6F	85 x 86 x 12 mm 115 x 86 x 12 mm
Ambient temperature Ta	-10... +60 °C (14... 140 °F)
Enclosure rating per IEC 60529	IP 67/IP 69K

CAD files for sensors can be
found at
www.automationdirect.com