

# S3N



## 95B010122

**S3N-PR-2-FG01-PL TXRX PNP LIGHT CABLE**

**MINIATURE PHOTOELECTRIC SENSOR**

## OVERVIEW

- All models with visible and bright red emission
- LED and Laser emission models
- Multiple Background suppression functions
- Shiny and clear object detection
- Single, Double trimmer & Push Button models
- Diffuse proximity up to 100 cm
- Background suppression up to 800 mm (LED trimmer version)
- Polarized RRX 7 m (Red LED emission)
- Polarized RRX 12 m (Red Laser emission)
- Through-beam 20 m and Laser 30 m
- Connection with 2 m Cable or M8 connector
- Rugged IP67 Plastic miniature case
- M3 threaded holes on the front side with metal inserts
- State of the art IO-Link connectivity with extended Smart Tasks



## TECHNICAL FEATURES

Detection properties

Nominal sensing distance	20m
Sensitivity adjustment	1 turn trimmer

Minimum sensing distance (blind zone)

0

## Application

Function Principle

Through beam emitter and receiver

Optic position

Radial 90°

Functions

Through beam emitter and receiver

## Outputs

Output type

PNP Lon

Output Function

Lon

Switching frequency

500Hz

Response time

1ms

## Electrical data

Operating Voltage

10...30VDC

No-Load supply current

≤ 35mA

Load current

≤100mA

Leakage current

≤ 300 µA

Output voltage drop

≤2V@Iload=100mA

Max ripple content

≤10%

LED indicators

yellow OUTPUT LED, green STABILITY LED

Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Red (635nm)
Interference to external light	according to EN 60947-5-2 : 2020
Impulsive Overvoltage Protection	Yes
Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
Contact resistance	500 Vac 1 min., between electronics and housing
0,1µF @Vmax - 1µF @Vmin	Yes

#### Mechanical data

Housing Material	Plastic Polymer Fiber Glass reinforced
Connections	2m cable
Active Head Material	PMMA
Storage temperature	- 25°C...+70°C
Plug connector material	Metal
shaft material	POM, PMMA
Diameter/Dimension	Cubic

#### Test/Approvals

Approvals	CE cULus
EMC compatibility	EN 60947-5-2

Shocks and vibrations

0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)

## Generical Data

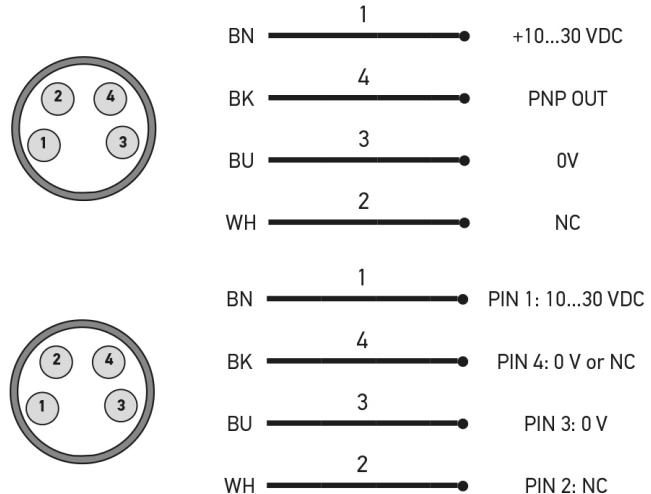
Dimensions 11x31x19 mm

Operating Temperature -25°C ... 55°C

Mechanical Protection IP67

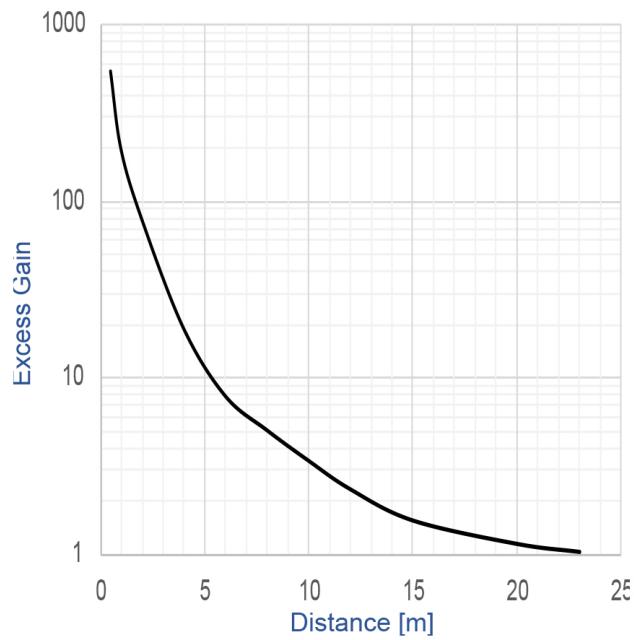
# CONNECTIONS

## Electrical diagram



# OTHERS

## Response curves



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