

PNG//smart Making Industries Smarter

Photoelectronic Sensors



The Advantages of the PNG//smart Formats at a Glance

The PNG//smart generation combines optimal performance and maximum communication capability - across all formats.



$\mathrel{\mathrel{\searrow}}$ High Degree of Protection

- Sturdy plastic housing with IP67/IP68 degree of protection
- Robust 316L stainless steel IP69K housing for washdown and heavy-duty environments



A Real Lightweight

- Conscious avoidance of full encapsulation production
- Low weight of the sensors with plastic housing enable use on moving system parts



Wide Temperature Range

- Reliable even in extreme cold (down to -40 °C) and heat (up to +60 °C)
- Can be used in the deep-freeze area in the food industry



weGreen: Intelligent Energy Saving

- Low current consumption up to 20 mA
- Low energy and resource consumption

The Perfect Size

wenglor offers the right sensor in the perfect size for every application. Space-saving designs combined with high-performance components ensure maximum flexibility during system planning.





1M Format

Housing dimensions: 54.5 × 27 × 16 mm





2K Format

Housing dimensions: 35.5 × 18.5 × 17 mm





P Format

Housing dimensions: $50 \times 50 \times 20$ mm





1K Format

Housing dimensions: 32×16×12 mm





N Format

Housing dimensions: 75×32.5×18 mm



Unique in Performance and Communication

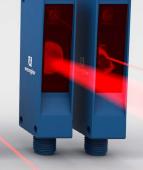
PNG//smart stands for "Photoelectronic Next Generation" – sensors from this series are a unique combination of precise wenglor technology and an intelligent interface. They flexibly exchange process and parameter data and, thanks to accurately targeted optics and a balanced switching point, they transmit highly precise results in real time.

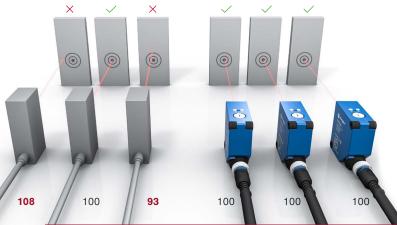












With Targeted Optics and Balanced Switching Point

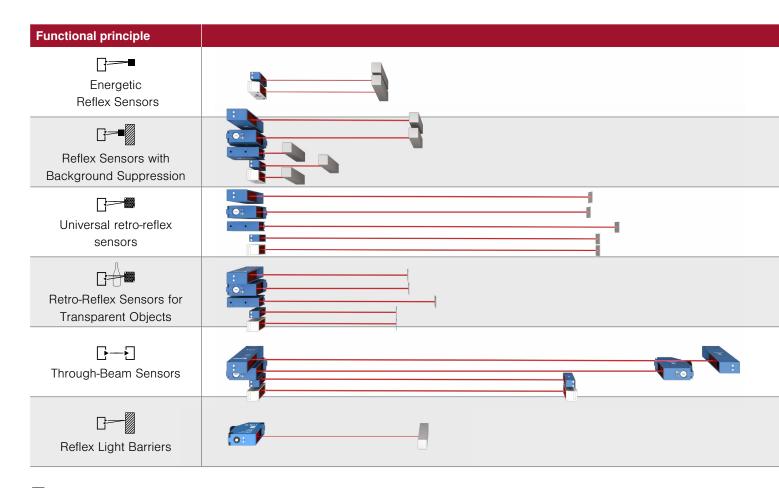
The position of the spot varies in the case of sensors without targeted optics.

Acquired data vary as well in the case of non-balanced switching points. Consequently, data communicated from different sensors are not comparable.

In the case of targeted optics and balanced switching points, data obtained from the different sensors are comparable.



Product overview



Features

- · Fast duplication:
 - Set up once duplicate as often as you like
- Condition monitoring:

Sensors generate diagnostic and status data







- Insensitive to interference:
 - Suitable for applications in confined spaces and simplifies installation
- Flexible switching or measurement:
 - Switching status and signal values available via IO-Link
- Factory-balanced light spot and switching point: Reproducible performance and sensor properties

	2K	┋ 1K	1 M	1P	I N
Light source	Detection range [mm] up to				
Laser lightRed lightBlue light	- 700 -	- 700 -	- - -	- - -	- - -
Laser lightRed lightBlue light	120 200 150	250 300 150	200 200 –	300 1,200 400	400 1,200 400
Laser lightRed lightBlue light	12,000 5,000 –	12,000 5,000 –	20,000 6,500 –	9,500 11,000 –	9,500 11,000 –
Laser lightRed lightBlue light	2,000 -	- 2,000 -	- 4,500 -	- 3,500 -	- 3,500 -
Laser lightRed lightBlue light	10,000 6,000 -	10,000 6,000 –	- - -	20,000	- 60,000 -
Laser lightRed lightBlue light	- - -	- - -	- - -	1,000 -	- - -
Technical Data	'		'		
Plug on housing	M8×1	M8×1	M12×1	M12×1	M12×1
NFC variants	×	×	~	~	•
Cable variants	×	~	×	×	×
Housing material	Stainless steel 316L	Plastic	Plastic	Plastic	Plastic
Degree of protection	IP68/IP69K	IP67/IP68	IP67/IP68	IP67/IP68	IP67/IP68
To the product portfolio				回托 244 64 64 64 64 64 64 64 64 64 64 64 64 6	



