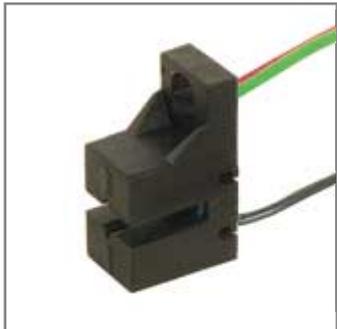
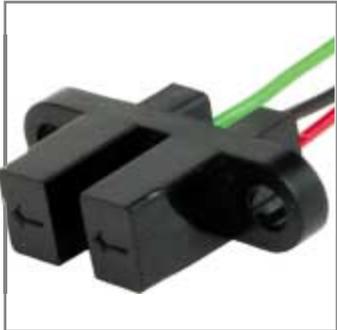
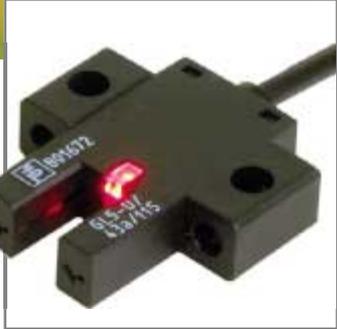




GL SERIES MINIATURE SLOT SENSOR



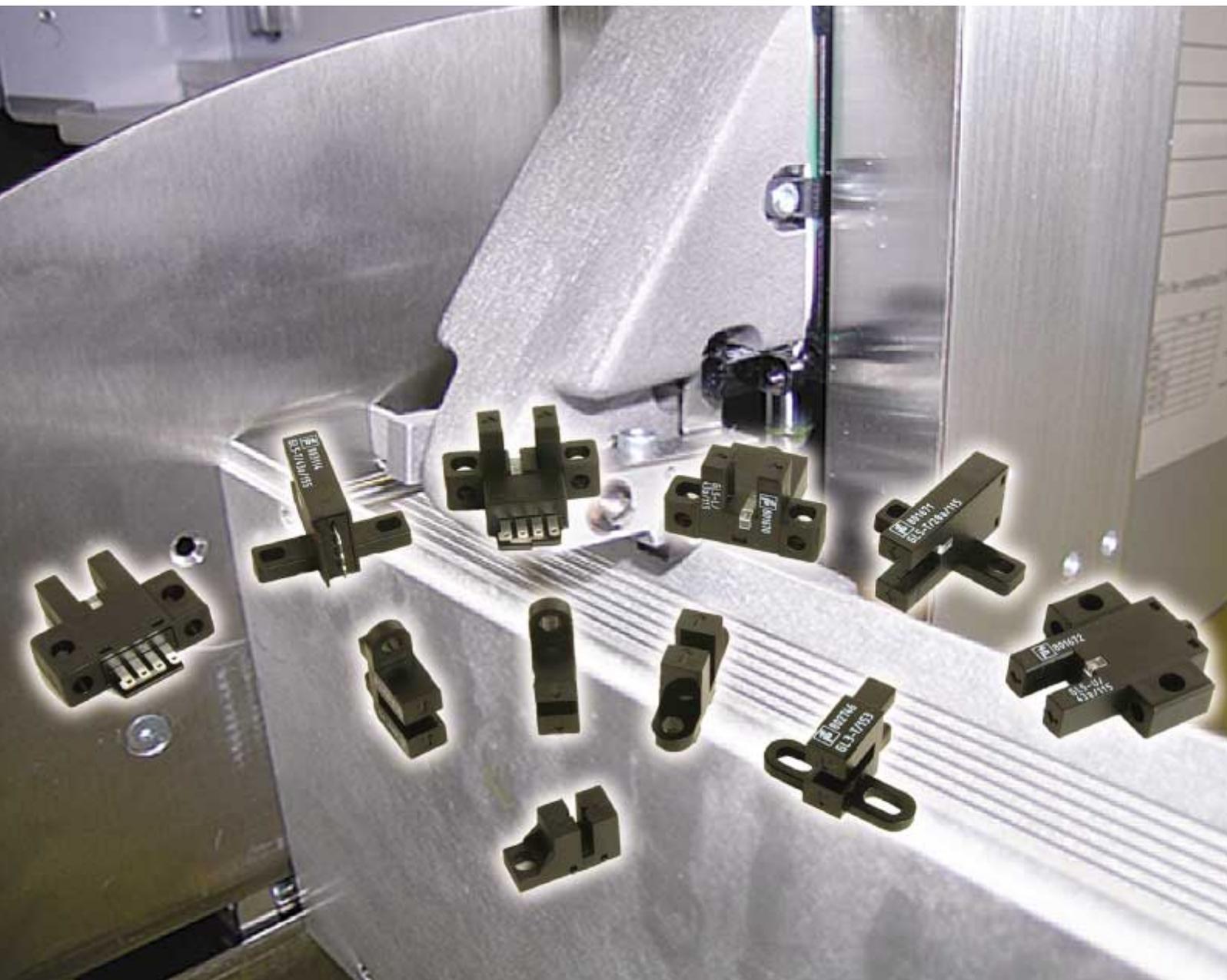
New! Introducing GL Series miniature slot sensors. Ideal products designed to meet the application needs of a variety of sensing and detection problems, for example for mechanical assemblies in the electronics industry

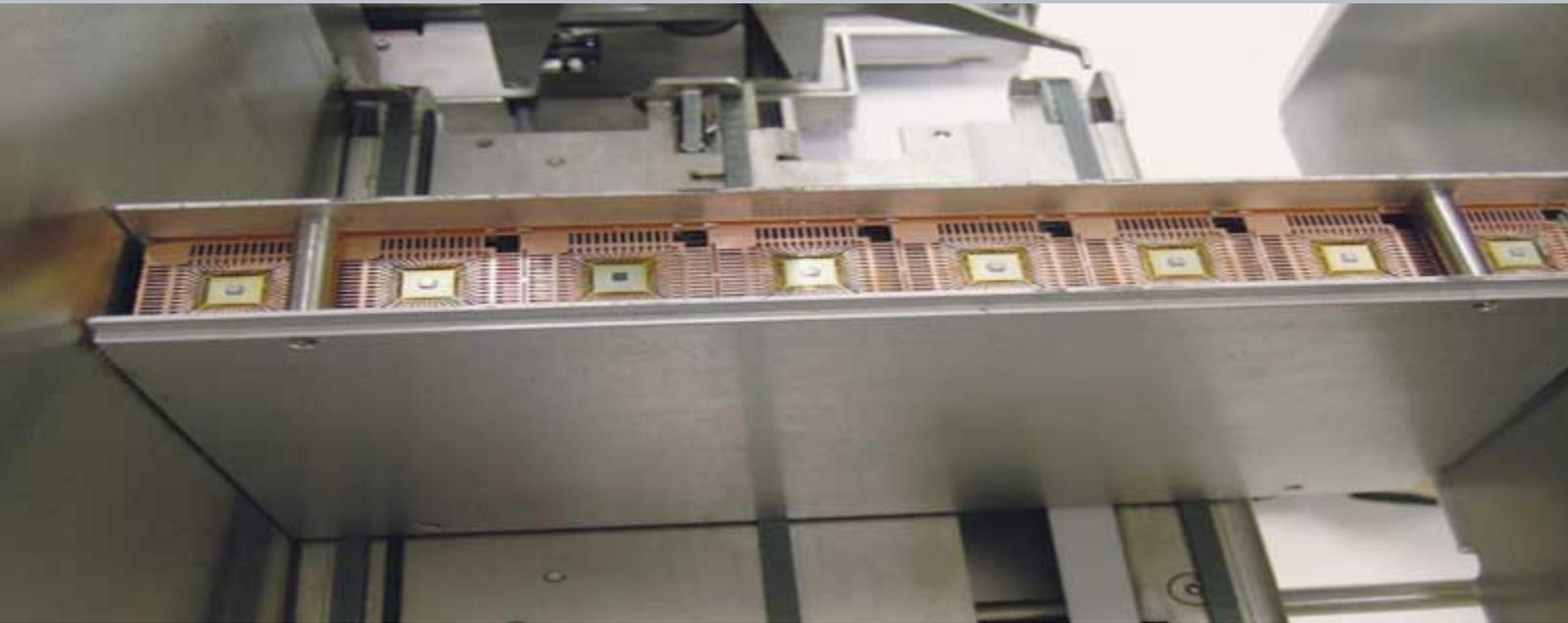
GL Series offers:

- Reliability
- Variety
- Economy

Fulfilling your needs for sensors for a host of assembly solutions

Sensors of the GL Series guarantee precise and error free detection over and over again. Available in slot widths of 2 mm, 3 mm and 5 mm, the GL Series provides you with multiple mounting configurations so varied that you will surely find a direct fit to meet your individual needs.





GL₂ – “MINI GENIUS”

Need to detect small targets in deep confined spaces? Take a look at GL₂. With its 1.8 mm slot size, this mini genius is a great performer. Reliable detection of small and tiny targets is possible with its small aperture slits. Its “Flat” mounting and wires that exit from the side of the housing enables it an unmatched performance. For a power packed performance in a small housing, GL₂ is a natural choice.



GL₃ – ULTIMATE FLEXIBILITY AND ECONOMY

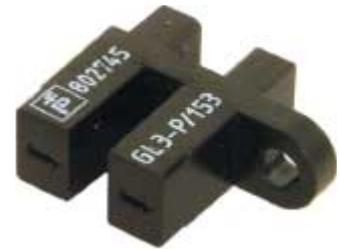
Need flexibility in mounting or housing configurations for similar targets? With its 3.15 mm slot size, the GL₃ series offers high flexibility in its four housing configurations. Its unique optical design ensures a high immunity to interference from the ambient light. An extra smooth exterior optical surface does not permit easy collection of dust. Each housing type is available with an in-built resistor that saves you from the need of extra wiring and external components.



GL₅ – ULTIMATE FEATURE PACKED PERFORMANCE

Need high end features that pack performance in a small sensor? With its 5 mm slot width, the GL₅ series offers ultimate performance in a miniature housing. A self-contained sensor series that has the highest switching frequency in its class, it readily meets your demanding applications. Its unique LED indicator design allows the switching of this sensor to be viewed from virtually all angles and from phenomenal distances. It also provides you easy visual diagnostics in deep/dark and confined spaces. Flexibility of use and mounting is further enhanced with availability of both – its 2 m cabled and connector versions.



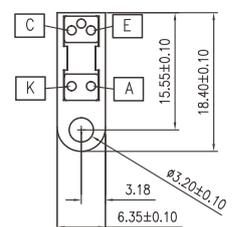
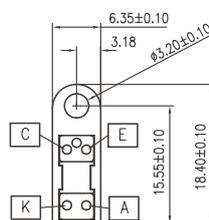
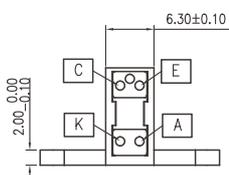
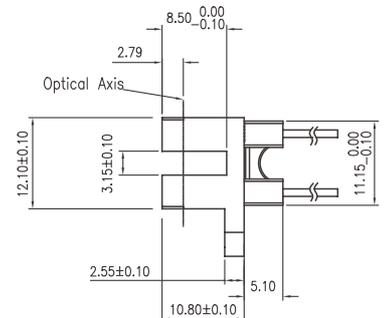
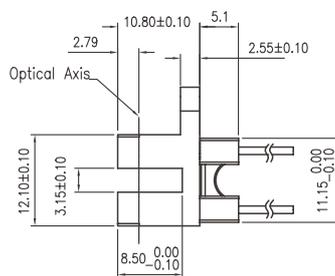
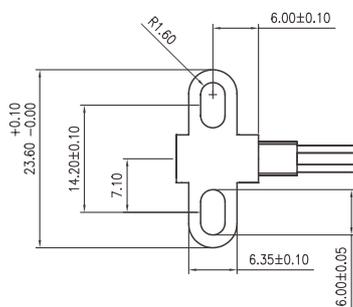


-Type	GL3 L-Type		GL3 P-Type	
3-wire version	4-wire version	3-wire version	4-wire version	3-wire version
GL3-T/153-Y803732	GL3-L/153	GL3-L/153-Y803730	GL3-P/153	GL3-P/153-Y803731
3.15 mm				
24 V DC	5 ... 30 V DC	24 V DC	5 ... 30 V DC	24 V DC
PC, infrared transparent black				
18 μs (typ.), 25 μs (max.); Vcc=5 V, IC=1 mA, RL=1 K	18 μs (typ.), 25 μs (max.); Vcc=5 V, IC=1 mA, RL=1 K	18 μs (typ.), 25 μs (max.); Vcc=5 V, IC=1 mA, RL=1 K	18 μs (typ.), 25 μs (max.); Vcc=5 V, IC=1 mA, RL=1 K	18 μs (typ.), 25 μs (max.); Vcc=5 V, IC=1 mA, RL=1 K
Halogen lamp: 1000 Lux (max.)				
Available in 4-wire version and 3 wire version: 2K, 1% Tc50, 0.4 W	Available in 4-wire version and 3 wire version: 2K, 1% Tc50, 0.4 W	Available in 4-wire version and 3 wire version: 2K, 1% Tc50, 0.4 W	Available in 4-wire version and 3 wire version: 2K, 1% Tc50, 0.4 W	Available in 4-wire version and 3 wire version: 2K, 1% Tc50, 0.4 W

GL3-T/153

GL3-L/153

GL3-P/153



GL 5 – ULTIMATE PERFORMANCE AND FEATURE



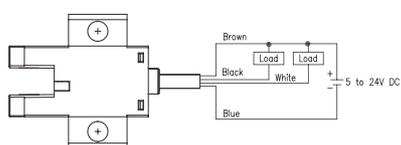
	GL5 U-Type Cable		GL5 U-Type Connector		GL5 T-Type Cable	
Models	NPN	GL5-U/28a/115		GL5-U/28a/155		GL5-T/28a/115
	PNP	GL5-U/43a/115		GL5-U/43a/155		GL5-T/43a/115
Slot width	5 mm		5 mm		5 mm	
Supply voltage	Operating range: 5 V ... 24 V DC absolute max: 4.75 ... 27 V DC		Operating range: 5 V ... 24 V DC absolute max: 4.75 ... 27 V DC		Operating range: 5 V ... 24 V DC absolute max: 4.75 ... 27 V DC	
Output Selection	Two outputs: Light-ON and Dark-ON		Two outputs: Light-ON and Dark-ON		Two outputs: Light-ON and Dark-ON	
Ambient Illuminator	Halogen lamp: 1000 Lux (max.)		Halogen lamp: 1000 Lux (max.)		Halogen lamp: 1000 Lux (max.)	
Housing Material	PBT		PBT		PBT	

*Minimum detectable object: 0.8 mm x 1.8 mm; Power ON and Power OFF delay: M 2 ms; Repeatability: M 0.03 mm; Switching frequency: 5 KHz (max.); Operating indicator

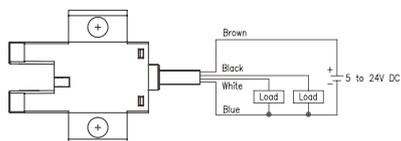
Technical Dimensions

Wiring diagram

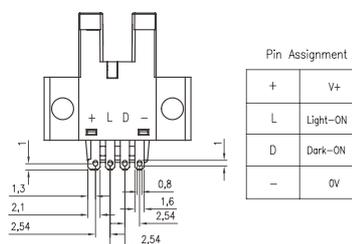
NPN Output



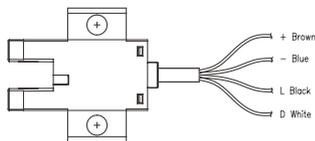
PNP Output



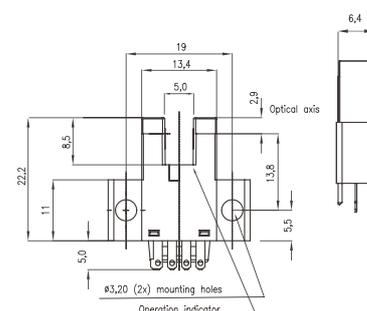
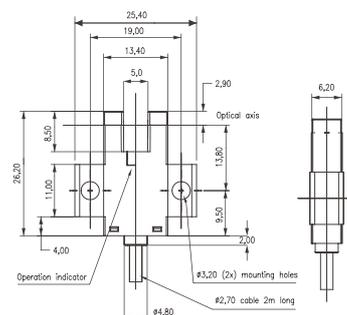
Pin Assignment



Connection Diagram



GL5-U



FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements – wherever you need us.

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