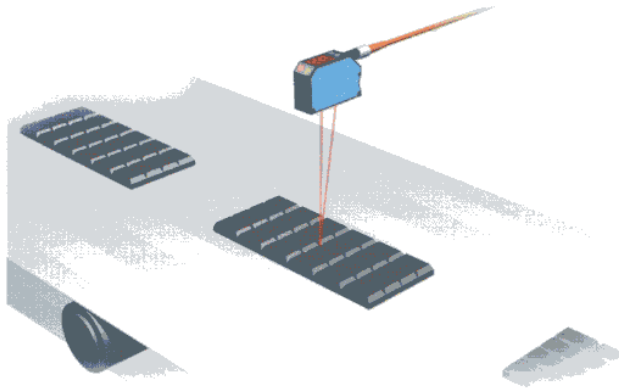


For thin and/or flat substance

FGS-D series

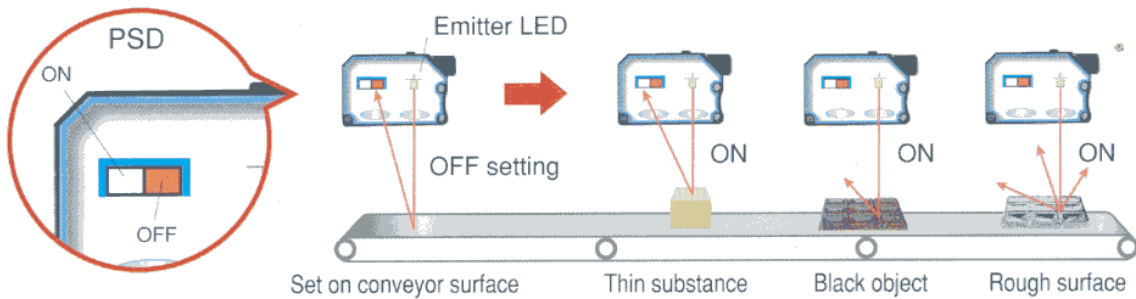
High-grade PSD (Position Sensing Device) implemented in a compact body precisely detects thin substance lying on conveyor.

- Cable type
FGS-D10N(P) : 80±20mm
FGS-D25N(P) : 100—250mm
- M8 Connector type
FGS-D10CN(P) : 80±20mm
FGS-D25CN(P) : 100—250mm



Features

- **FGS (Forth Ground Suppression) successfully detects rough and black surface because of PSD's sensing;**



- **Numerical display as the best way to make sure of sensitivity setting.**

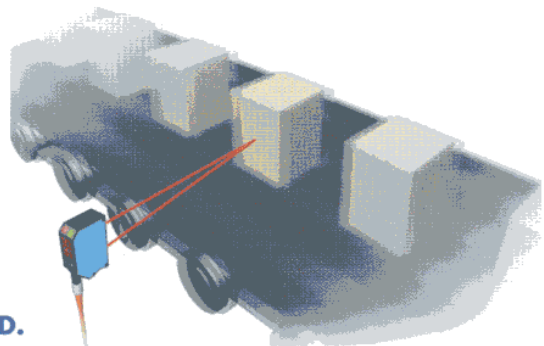


- **Mechanical toughness tested to 100G shock resistance.**

For colored substance on shaking conveyor

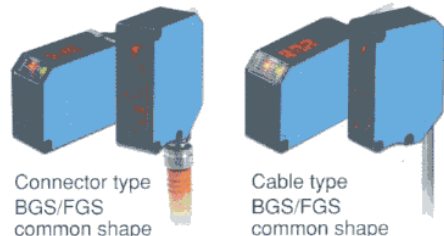
BGS-D series

- Cable type
BGS-D10N(P) : 50—100mm
BGS-D30N(P) : 100—300mm
- Connector type
BGS-D10CN(P) : 50—100mm
BGS-D30CN(P) : 100—300mm



Features

BGS-D approaches in another optical way than FGS-D. As all the product of Optex's BGS family, precise detection is possible to colored objects because of high grade PSD.



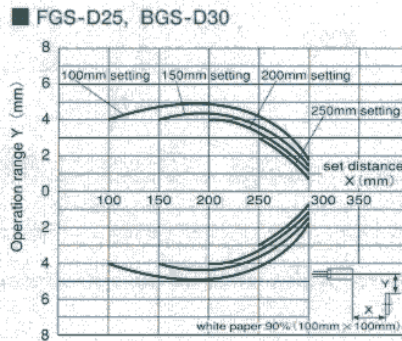
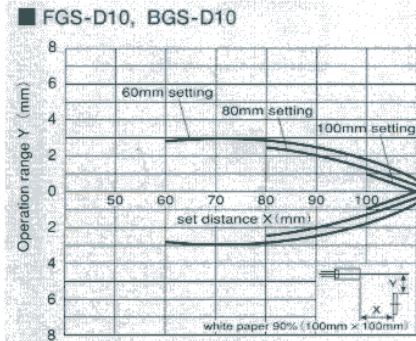
OPTEX World Standard
One product for the world



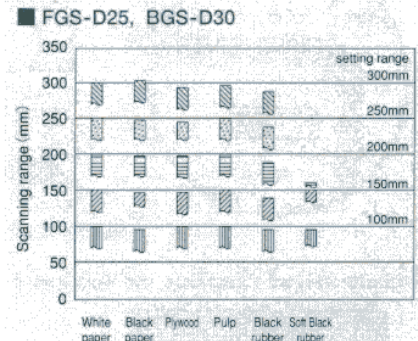
Specifications

	FGS - D series		BGS - D series	
	100mm scanning	250mm scanning	100mm scanning	300mm scanning
NPN, 2 meter cable, 10cm scanning	FGS - D10N	FGS - D25N	BGS - D10N	BGS - D30N
Ditto, PNP	FGS - D10P	FGS - D25P	BGS - D10P	BGS - D30P
NPN, 4 pin M8 Connector	FGS - D10CN	FGS - D25CN	BGS - D10CN	BGS - D30CN
Ditto, PNP	FGS - D10CP	FGS - D25CP	BGS - D10CP	BGS - D30CP
Spot Size	φ 4mm at 100mm	φ 11mm at 300mm	φ 4mm at 100mm	φ 11mm at 300mm
Scanning Range	80 ± 20 mm	100 - 250 mm	50 - 100 mm	100 - 300 mm
Light Source	Red LED			
Response Time	2.5msec Max			
Sensitivity adjustment	Digital setting			
Hysteresis	3%	10%	3%	10%
Numerical Display	(1) Threshold (2) Distance			
Indicator	Output active (Orange), Stable status (Green)			
Output	NPN or PNP Open collector 100mA / DC30V / 1.8V residual Max			
Operation mode	Light / Dark selection by cable			
Supply Voltage	10 to 30V DC including 10% of ripple			
Current consumption	60mA / 10V, 25mA / 30V			
Circuit Protection	Reverse Polarity, Short Circuit			
Timer	0 - 10 sec			
Noise resistance	Radiation : EN60947-5-2, Immunity : EN60947-5-2			
Conformity	JIS, UL, CE, VDE (Class3)			
Ambient resistance	Temp / Humid : Operation (-25 to 55C, 35-85% RH), Storage (-40 to 70 C, 35-95% RH)			
Light immunity	Sunlight 10,000 lux max., High Frequency Lamp 3,000 Lux max.			
Vibration	10 50 55 Hz amplitude 1.5 mm, XYZ for two hours (IEC68)			
Shock	100 G			
IP protection	IP67			
Option	(1) Teach-in type (2) Additional long cable 5 meter			

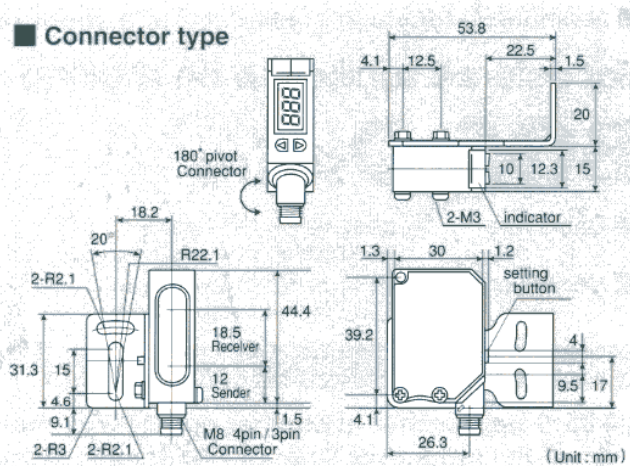
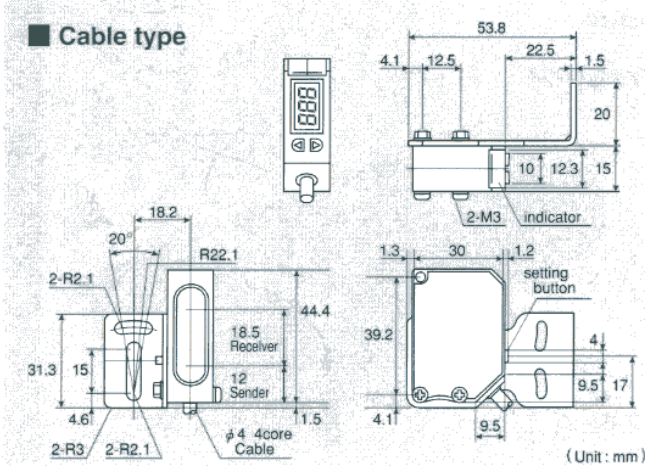
Operation range



Scanning range by material



Dimensions (Wall Installation common to FGS / BGS)



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