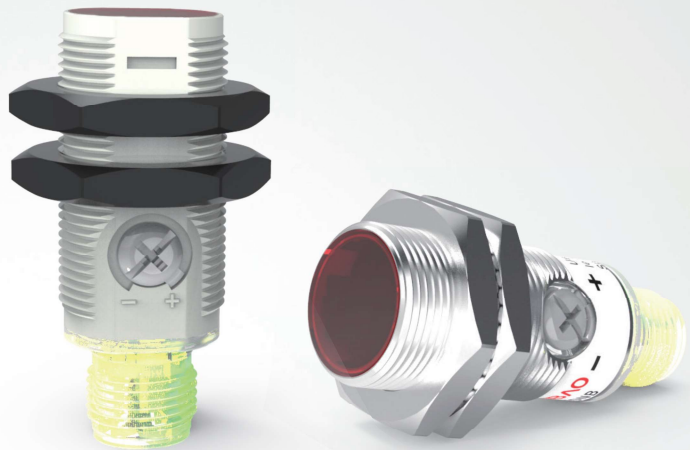


Photoelectric Sensor PSS/PSM series



 **LANBAO**

Shanghai Lanbao Sensing Technology Co., Ltd.

Small size photoelectric sensors

PSS/PSM series



➤ Product advantages

Plastic, metal universal housing,
Shortest overall length is only 42mm

Unaffected by target object,
Can easily realize transparent object
detection

Can be installed flush, Meet multiple
applications,
More flexible choices

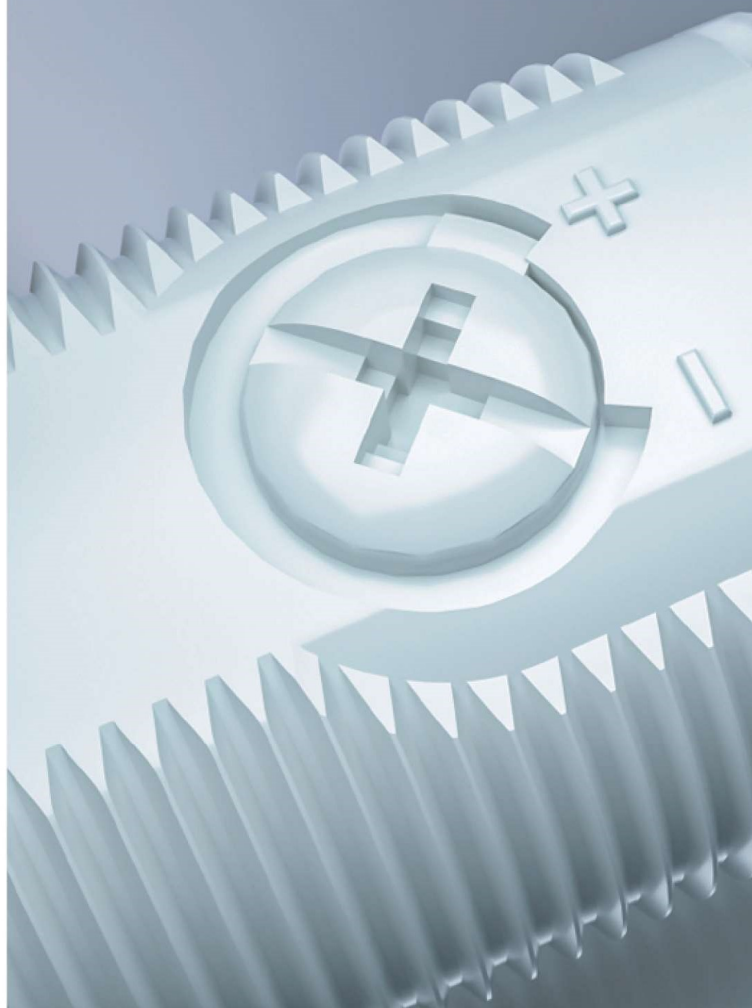
Product passed CE certification



Highlighted LED indicator,
Facilitates comprehensive
identification, Operating status



Large knob design
for easy adjustment

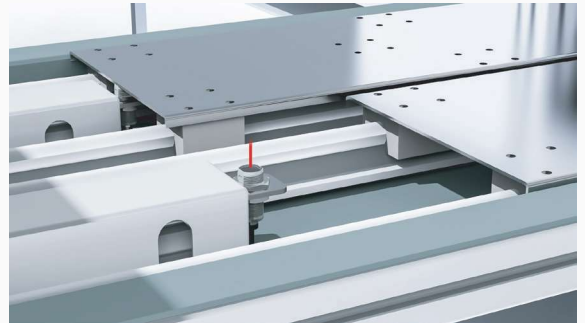


Application

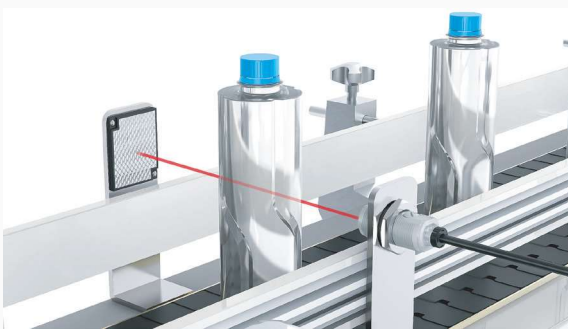
Identification of subway gate personnel



Highlight metal detection



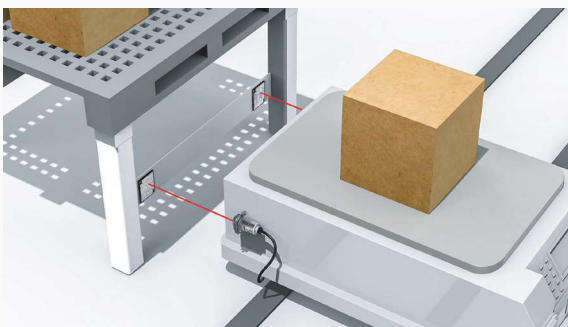
Transparent object detection



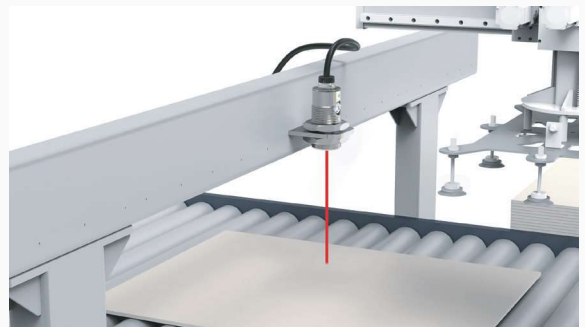
Soft film material detection



AGV in-position recognition



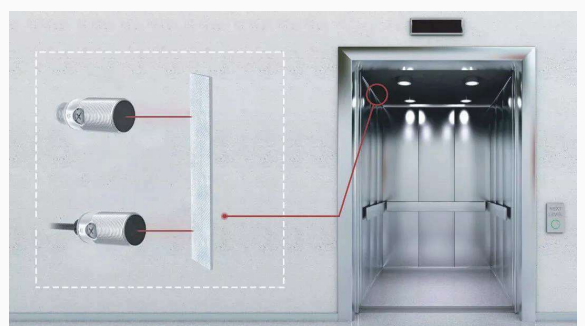
Detection of objects of different colors



Material passed identification



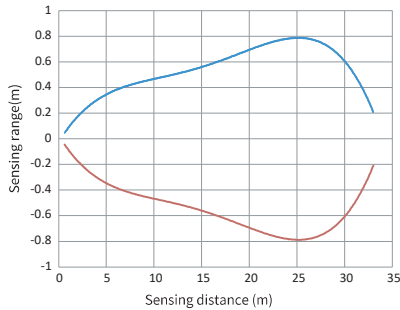
Elevator real-time operation control



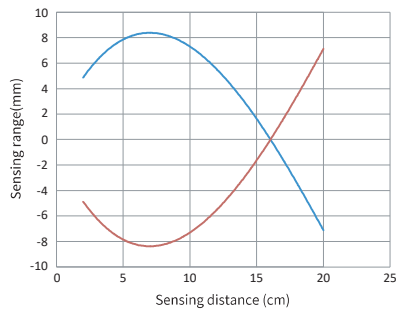
Performance※

Sensing Range

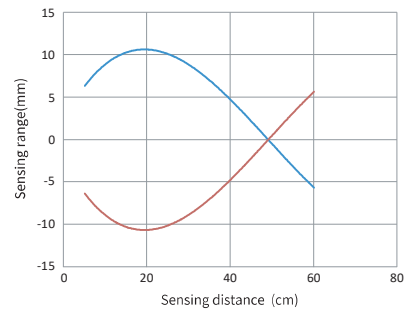
Through beam(PSS/PSM-TM20.../-E2)



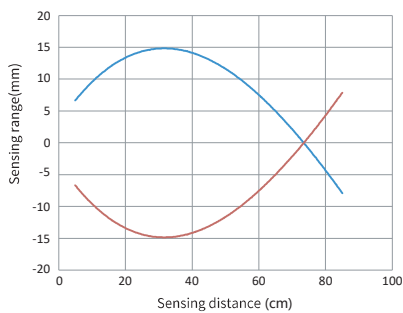
Diffuse reflection(PSS/PSM-BC10.../-E2)



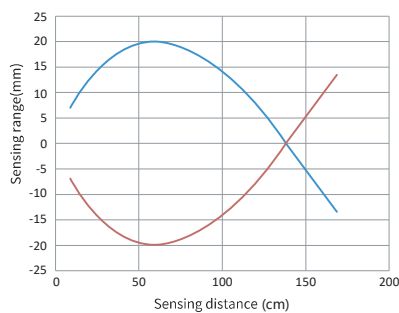
Diffuse reflection(PSS/PSM-BC40...R/-E2)



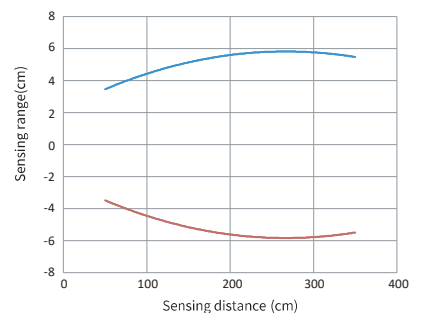
Diffuse reflection(PSS/PSM-BC40.../-E2)



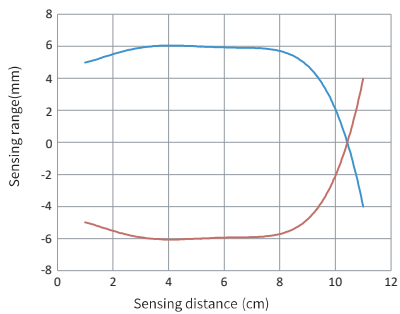
Diffuse reflection(PSS/PSM-BC100.../-E2)



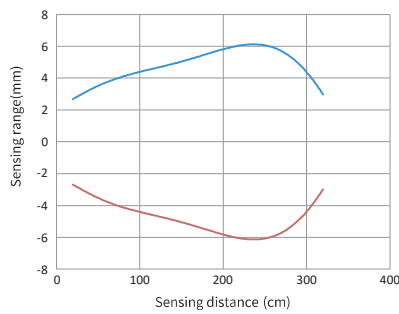
Polarized reflection(PSS/PSM-PM3.../-E2)



Background suppression(PSS/PSM-YC10...R/-E2)

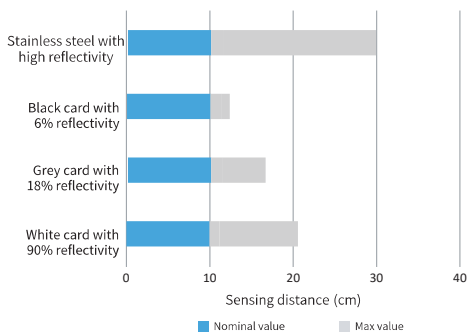


Transparent object detection(PSS/PSM-GM2...R/-E2)

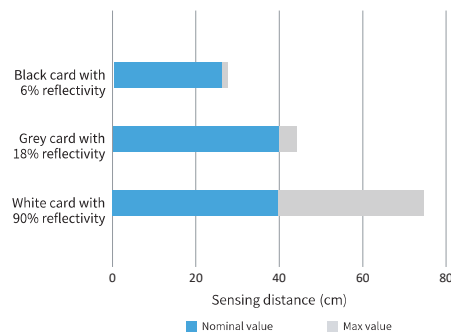


Sensing Distance

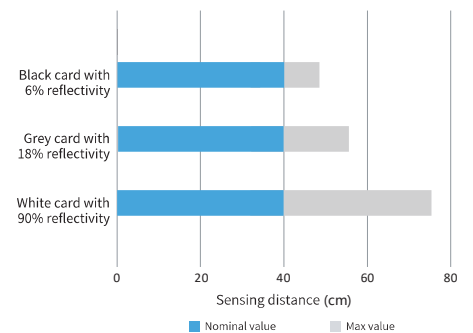
Diffuse reflection(PSS/PSM-BC10.../-E2)



Diffuse reflection(PSS/PSM-BC40...R/-E2)



Diffuse reflection(PSS/PSM-BC40.../-E2)

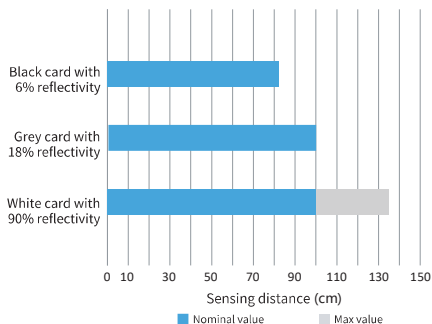


※This data is based on the standard detection in the specification parameter.

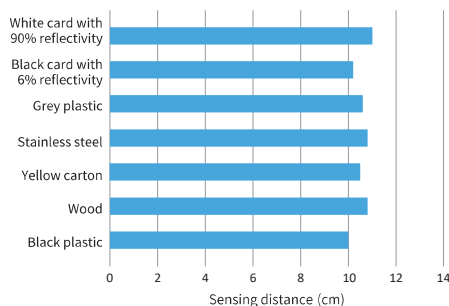
Performance

Sensing Distance

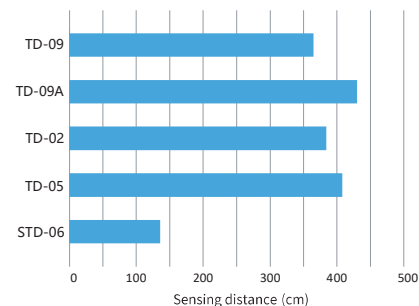
Diffuse reflection
(PSS/PSM-BC100.../-E2)



Background suppression
(PSS/PSM-YC10...R/-E2)

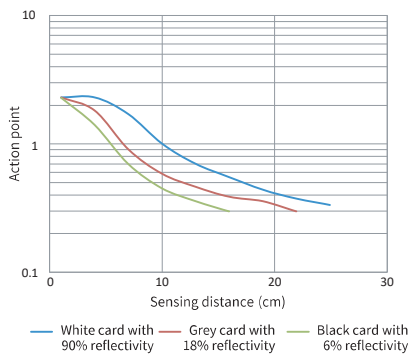


Polarized reflection-
different reflector(PSS/PSM-PM.../-E2)

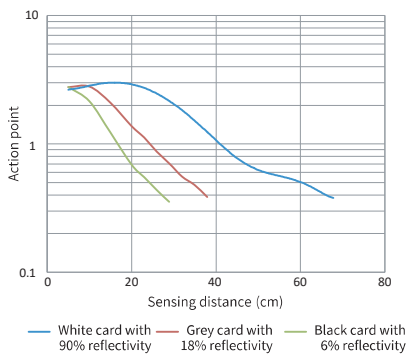


Signal Redundancy

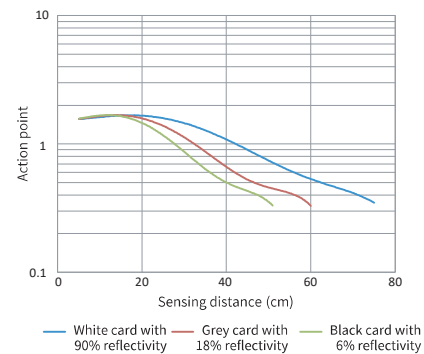
Diffuse reflection(PSS/PSM-BC10.../-E2)



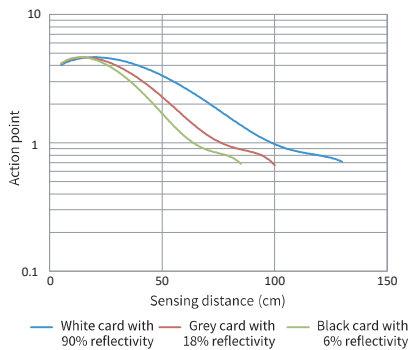
Diffuse reflection(PSS/PSM-BC40...R/-E2)



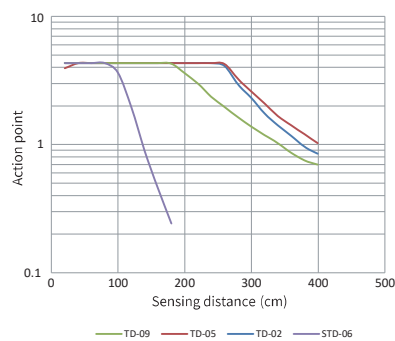
Diffuse reflection(PSS/PSM-BC40.../-E2)



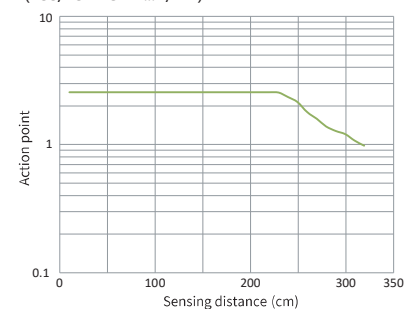
Diffuse reflection(PSS/PSM-BC100.../-E2)



Polarized reflection(PSS/PSM-PM.../-E2)

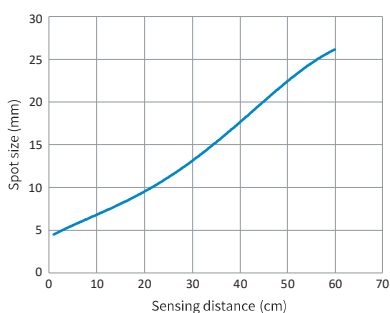


Transparent object detection
(PSS/PSM-GM2...R/-E2)



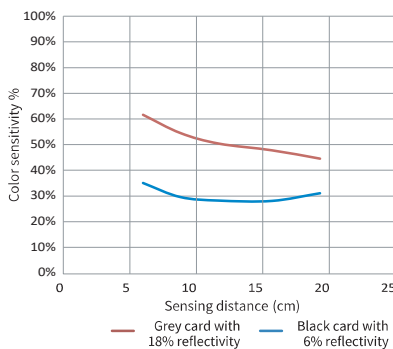
Spot Size

Background suppression/Diffuse reflection/
Polarized reflection/Transparent object detection
(PSS/PSM-YC10.../-BC40...R/-PM...R/-GM...R/-E2)

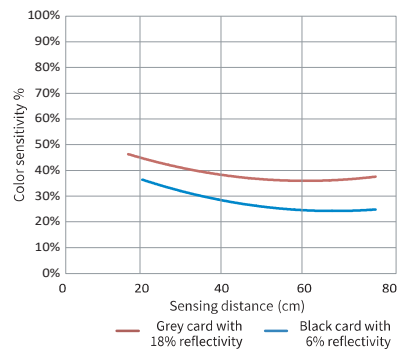


Color Sensitivity

Diffuse reflection(PSS/PSM-BC10.../-E2)



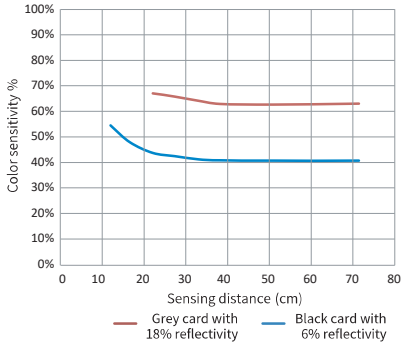
Diffuse reflection(PSS/PSM-BC40.../-E2)



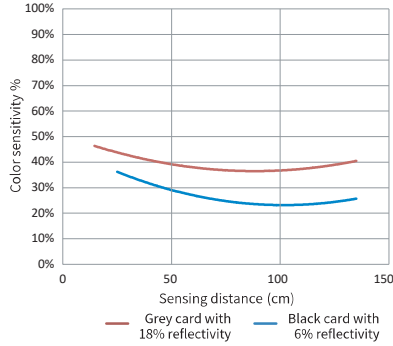
Performance

Color Sensitivity

Diffuse reflection (PSS/PSM-BC40...R/-E2)



Diffuse reflection (PSS/PSM-BC100.../-E2)



Dimensions

PSS-Connector	PSS-Cable
<p>Background suppression no potentiometer</p>	<p>Background suppression no potentiometer Cable: $\phi 3.9$ Standard length: 2m Minimum bending radius: 12mm</p>
PSM-Connector	PSM-Cable
<p>Background suppression no potentiometer</p>	<p>Background suppression no potentiometer Cable: $\phi 3.9$ Standard length: 2m Minimum bending radius: 12mm</p>

Accessory Dimensions

M12 Connector QE12-N4G2	M18 Nut-PSS

Accessory Dimensions

<p style="text-align: center;">M12 Connector QE12-N4G2</p>	<p style="text-align: center;">Narrow Slit FJP-03A</p>	<p style="text-align: center;">M18 Nut-PSM</p>
<p style="text-align: center;">Mounting Bracket ZJP-9</p>	<p style="text-align: center;">Mounting buckle ZJP-10</p>	

Wiring Diagram

<p style="text-align: center;">NPN</p>	<p style="text-align: center;">PNP</p>	<p style="text-align: center;">Emitter</p>
<p style="text-align: center;">Emitter</p>	<p style="text-align: center;">Diffuse Reflection, Background Suppression, Polarized Reflection, Through Beam-Receiver</p>	<p style="text-align: center;">Emitter</p> <p style="text-align: center;">brown: + blue: -</p> <p style="text-align: center;">Diffuse Reflection, Background Suppression, Polarized Reflection, Through Beam-Receiver</p> <p style="text-align: center;">brown: + black: OUT blue: - white: -NC/+NO</p>