

Reflective Object Sensor

OPB703 through OPB705,
OPB703WZ through OPB705WZ,
OPB70AWZ through OPB70HWZ



Features:

- Phototransistor output
- High sensitivity
- Low-cost plastic housing
- Available with lenses for dust protection and ambient light filtration
- Focused for maximum sensitivity

Description:

The **OPB703**, **OPB704** and **OPB705** consist of an Infrared (890nm) Light Emitting Diode (LED) and a NPN silicon Phototransistor, mounted side-by-side on converging optical axes in a black plastic housing and are designed for PCBoard mounting. The **OPB703WZ**, **OPB704WZ**, **OPB705WZ** and **OPB70BWZ** are designed for remote mounting utilizing interconnect wires of UL approved 26 AWG, 24" (61.0cm) minimum length, stripped and tinned.

The **OPB70AWZ** consists of an Infrared (890nm) Light Emitting Diode (LED) and a NPN silicon Photodarlington, mounted side-by-side on converging optical axes in a black plastic housing and is designed for remote mounting utilizing interconnect wires of UL approved 26 AWG, 24" (61.0cm) minimum length, stripped and tinned.

The **OPB70CWZ through OPB70FWZ** consist of a Visible (Red 640nm) Light Emitting Diode (LED) and a NPN silicon Phototransistor or Rbe Phototransistor, mounted side-by-side on converging optical axes in a black plastic housing and are designed for remote mounting utilizing interconnect wires of UL approved 26 AWG, 24" (61.0cm) minimum length, stripped and tinned.

Various lens options are available: No lens for the (**OPB703**, **OPB703WZ**), blue window for dust protection for the (**OPB704**, **OPB704WZ**, **OPB70BWZ**, **OPB70HWZ**) and aperture lens for improved resolution for the (**OPB705**, **OPB705WZ**, **OPB70AWZ**, **OPB70CWZ**, **OPB70DWZ**). The **OPB704G** and **OPB704GWZ** offers excellent protection for dirty environments.

The phototransistor responds to illumination from the emitter when a reflective object passes within the field of view centered typically at 0.15" (3.8 mm).

Custom electrical, wire, cabling and connectors are available. Contact your local representative or OPTEK for more information.

Applications:

- Non-contact reflective object sensor
- Assembly line automation
- Machine automation
- Machine safety
- End of travel sensor
- Door sensor
- Mark Detection
- Office Equipment



RoHS

Ordering Information				
Part	LED Peak	Detector	Optical Cover	Lead or Wire
OPB703	890 nm	Transistor	None	0.160" Leads
OPB703WZ				24" / 26 AWG Wire
OPB704			Blue Window	0.160" Leads
OPB704WZ				24" / 26 AWG Wire
OPB70HWZ				24" / 26 AWG Wire
OPB704G				0.160" Leads
OPB704GWZ				24" / 26 AWG Wire
OPB705			Aperture	0.160" Leads
OPB705WZ				24" / 26 AWG Wire
OPB70AWZ				
OPB70BWZ		Darlington		
OPB70BWZ	Rbe Transistor	Blue Window		
OPB70CWZ	640 nm	Rbe Transistor	Aperture	24" / 26 AWG Wire
OPB70DWZ		Transistor		
OPB70EWZ		Rbe Transistor	Clear Window	
OPB70FWZ		Transistor		

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

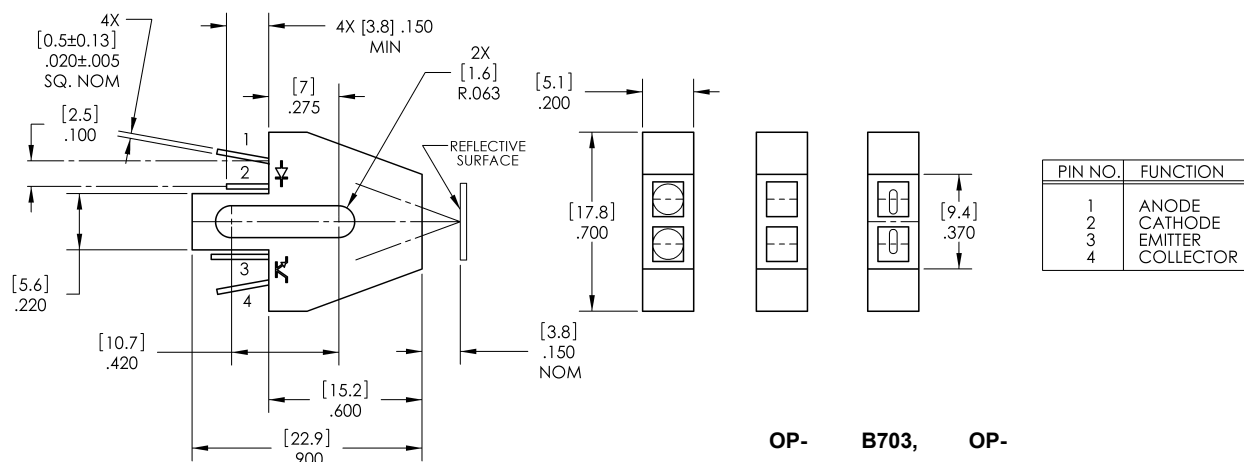
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Reflective Object Sensor

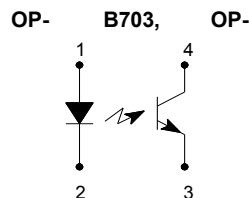
OPB703 through OPB705,
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OPB70AWZ through OPB70HWZ



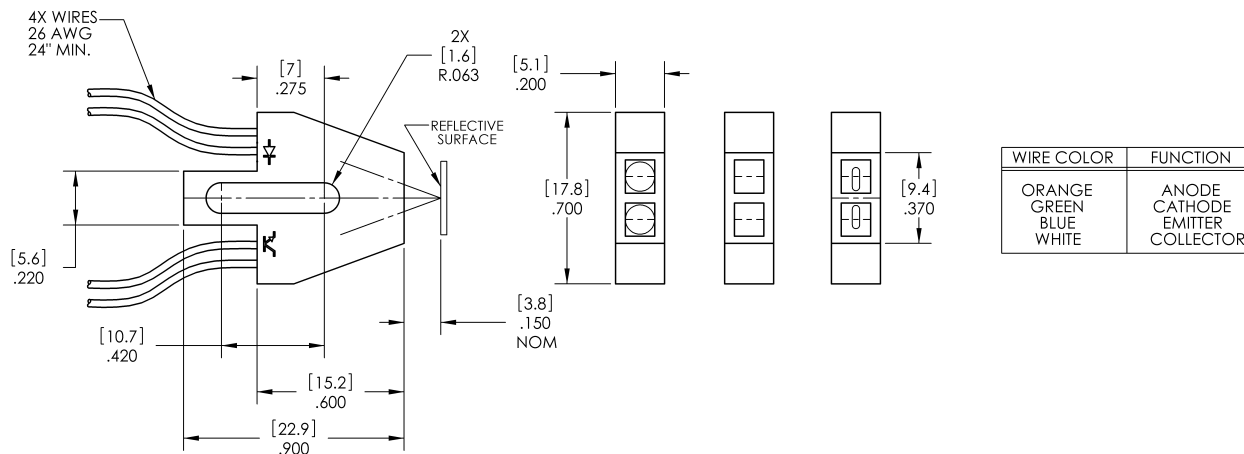
OPB703, OPB704, OPB705



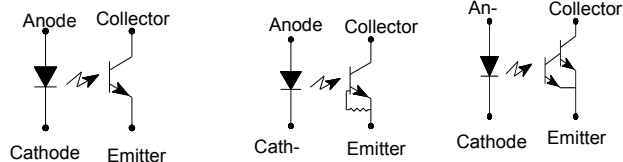
DIMENSIONS ARE IN INCHES [MM]
TOLERANCES ARE ± .010 UNLESS OTHERWISE SPECIFIED.



OPB703WZ, OPB704WZ, OPB705WZ, OPB70AWZ, OPB70BWZ, OPB70CWZ, OPB70DWZ



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