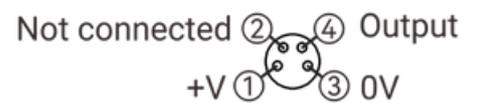
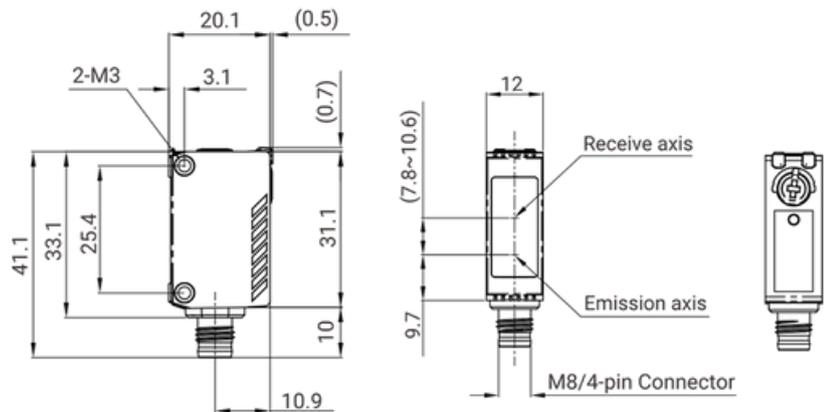


# VTPE/M300-NE

## Photoelectric Sensor (BGS)

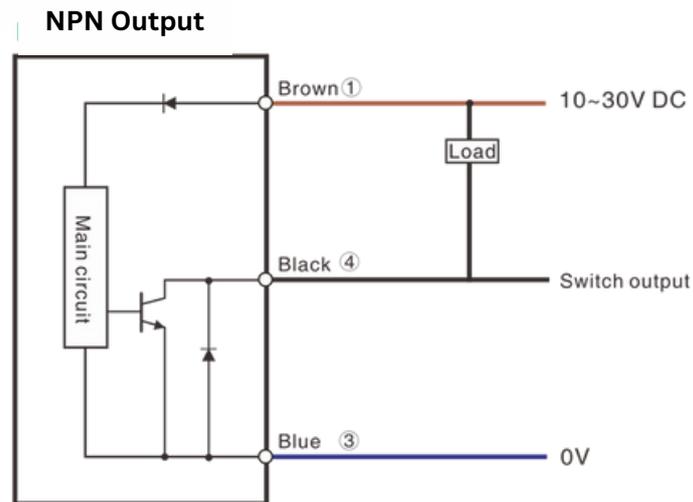


<b>Working principle</b>	Photoelectric sensor
<b>Housing style</b>	Square
<b>Optical working principle</b>	Background suppression diffuse reflection
<b>Detection Range</b>	5~300mm
<b>Set distance</b>	25~300mm
<b>Spot Size</b>	ø8mm/300mm
<b>Light Source</b>	Red Light (660nm)

## Technical data

Indicator light	Operation: Green; Output: Red
Sensitivity Adjustment	6-turn potentiometer L.on (Light On)/D.on
Switch Mode	(Dark On) switchable
Output Mode	NPN open-collector type selectable
Response Time	1ms
Switching frequency	500Hz
Repeatability	0.05
Hysteresis	0.05
Operating Voltage	10~30V DC±10%
Current consumed	≤20mA
Residual Voltage	<1.5V
Insulation Resistance	≥20MΩ/500V DC
Withstand Voltage	1000V AC, 50/60Hz, 1 minute
ProtectiOn Circuit	Reverse polarity protection/Surge protection/Short-circuit protection
Operating temperature	- 25°C~+55°C (no freezing)
Storage Temperature	-30~+70°C (no freezing)
Ambient light	Incandescent lamp ≤3000Lux; Sunlight ≤10000Lux
Vibration Resistance	10~50Hz, 1.5mm amplitude, X, Y, Z directions for 2 hours each
Protection rating	IP67
Maximum Tightening Torque	0.5Nm
Connection Method	M8/4-pin connector
Dimensions	31.0x20.0x11.0mm
Weight	10g
Material	Housing: PC + A B S ; L ens: PMMA
Accessories	Screws, bracket, screwdriver

# Connecting Diagram (NPN-Output)



1. Please connect the sensor as per above wiring diagram .
2. If the wires are not connected as per connection diagram shown above, the sensor may get defective or not work

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