

DX-7 series

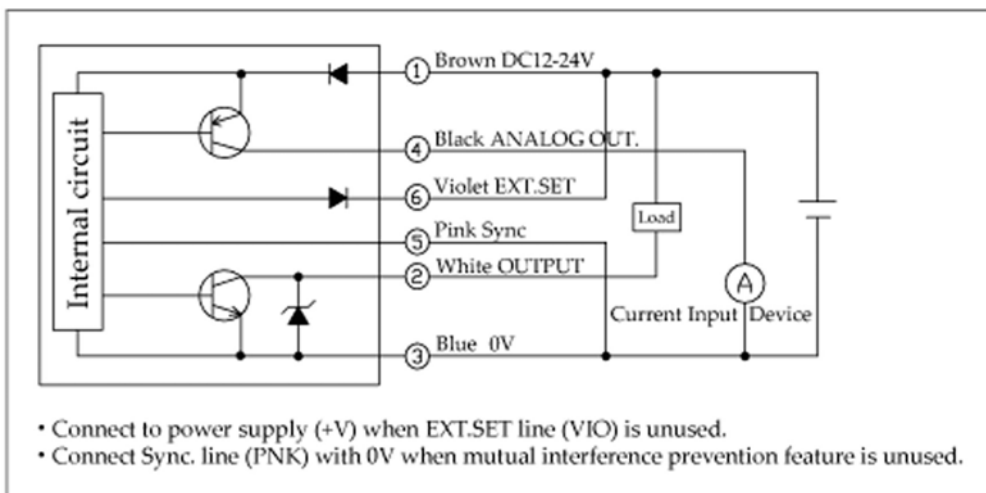
- This product is a phase differential detection type distance sensor that has two outputs, an analog output (current output of 4-20mA) and a comparator output (normal or 1 point zone).
- This distance sensor is designed to adopt a new technology to measure a distance by detecting the phase differential of light (differential of time).
- Neither the influences of change in the receiving light quantities nor the influences of the background object are easily received. Therefore stable long distance detection can be obtained.



OUTPUT CIRCUIT

■ OUTPUT CIRCUIT

When mutual interference prevention feature and external teaching line are unused.



SPECIFICATIONS

Model		DX-7AH
Detection distance		0.5-7.5m (Comparator output : 0.5-7.0m) *1
Standard detecting object		70×70cm White drawing paper
Power supply		12-24V DC±10% Ripple 10% (Max.)
Power consumption		2.3W (Max.)
Analog output characteristic	Current output	4 to 20mA±10% (Allowable load resistance 250Ω Max.)
	Resolution	±5%F.S. (Max.)*4, *5
	linearity	10%F.S. (Max.) *4
	Response frequency	Approx. 20Hz *2
Comparator Output characteristic	Setting range	0.5 to 7.0m *1
	Output mode	NPN open collector, Sink current 50mA(Max.)(30V DC Max.),Residual voltage 2V (Max.)
	Response frequency	Approx. 20Hz
	Operating mode	Light-on / Dark-on selectable
	Load short-circuit protection	Built-in
Light source (wavelength)		Infrared LED (870nm)
Switch(SW)		Push button switch ×3
Teaching method		Auto teaching (Comparator output only)
Teaching variation		One point normal teaching / Two point normal teaching / One point zone teaching
Materials	Case Aluminum	(anodized aluminum processing)
	Front and rear panel	ABS resin
	Lens	Polycarbonate
	Cover for lens	Polycarbonate
Connection		Six pin waterproof plastic connector
Weight		Approx. 200g
Accessory		Cable with connector (*3), 250 resistor for current-voltage conversion, Instruction manual

*1 Please note that it might malfunction when there is an object with a strong reflection 40m-80m ahead.

*2: Frequency in case that output amplitude attenuates up to approx. 90%

*3: 0.2m2 × 6 wicks, 2m (outer diameter φ5)

*4: Value 15 minutes after the power is supplied

*5: A high-resolution output can be obtained by averaging processing or integrating.

DIMENSIONS

