



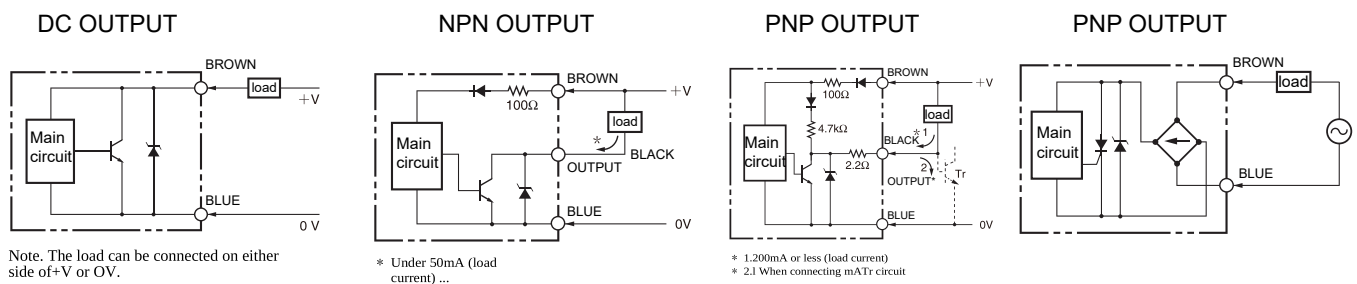
BIG RECTANGULAR INDUCTIVE PROXIMITY SENSOR SN-50 SERIES



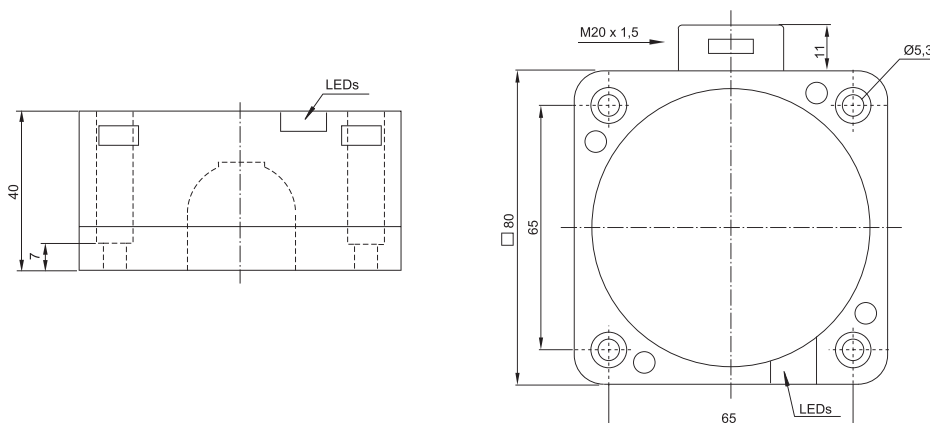
- Many kinds of outputs choice, covered most of cases
- Simple installation, can be used for high-speed pulse generator, high-speed rotation control, etc.
- Easy to check indicator, easy to know working status.
- Installed easily, and excellent performance.
- Dual LED indicators, Built-in terminal type or connector mounting type connections.

Detection mode	connection mode	Detection	output	Output model	
Positive detection	50mm	AC2 OUTPUT	NO	SN-50AC	
		NPN OUTPUT	NO	SN-50N	
		PNP OUTPUT	NO	SN-50P	
Positive detection	Wire lead-out type	50mm	DC2 OUTPUT	NO	SN-50B
			NPN OUTPUT	NO+NC	SN-50NC
			PNP OUTPUT	NO+NC	SN-50PC

Circuit Diagram



Installation dimension drawing



Rating/ performance	
DC 3-wire type	
Model	SN-50 □
Detection distance	50mm±10%
Set distance	0~50mm
Backward distance	Less than 10% of the detection distance
Detection object	Magnetic (non-magnetic) metals will reduce the detection distance. Refer to "Property Data")
Standard test object	Iron 30×30×1mm
Response time	Under 2ms
Response frequency*	150Hz
Power supply voltage (use voltage range)	DC12~24V ripple (p-p)10% below DC10~30V
rated current	2000mA below
Control	Open collector NPN below 50mA
output	(DC30V) below 1V (load current 50mA and conductor length 2m) detection display
display lamp	Detection display (Red)
Action state (when detecting object approaching)	See the time chart of "Input/Output Circuit Diagram" for details.
Circuit protection	Reverse connection protection, surge absorption
Ambient temperature	Working time and storage time:-25 ~+70 C (no freezing and condensation); working time and storage
Ambient humidity	-35 ~ 95% RH (no condensation)
Temperature effect	Within the temperature range of-25 ~+70 C, the detection distance at ±23°C is less than 20%
Voltage effect	Within the range of 10% of rated power supply voltage, the detection distance at rated power supply voltage is less than 2.5%
Insulation resistance	50M above
Withstand voltage	AC500V 50/60Hz 1min
Vibration (durability)	10~55Hz Up and down amplitude 1.5mmX、 Y、 Z each directions 2 hours
Impact (durability)	200m/s ² X、 Y、 Z each directions 10 times
Protective structure	IEC standard IP67
Connection method	Wiring 2M length cable (standard)
Weight	Approx. 160g
Materials	Anti-heat ABS
Housing	
Sens. face	
Annex	Use manual

* The response frequency of DC switch unit is the average value.