

Proximity • Photoelectric • Ultrasonic Sensors



Sensors
Proximity
Photoelectric
Ultrasonic



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General information

Proximity sensors

- Inductive & capacitive
- Non-contact sensing
- Extremely long life
- High speed switching frequency
- Short circuit protection
- AC & DC models

Inductive

- Metallic objects only
- Sensing distances from 0.8 to 50mm
- Large selection of 2 wire, 3 wire and 4 wire models
- Choice of quick disconnect, cable or terminal connection
- Stainless steel, Nickel-plated brass or Crastin housings

Capacitive

- Nonmetallic objects (paper, cardboard, plastic, etc.)
- Fluids & metallic objects
- 10mm sensing range
- Objects may be sensed through glass or plastic
- Choice of quick disconnect or cable
- Stainless steel housing

Photoelectric sensors

Diffused mode

- Sensing distances up to 800mm
- Subcompact, compact and cylindrical models
- Choice of quick disconnect, cable or terminal connection
- Light on or dark on operation

Retro-reflective mode

- Sensing distances up to 5 m
- Subcompact, compact and cylindrical models
- Choice of quick disconnect, cable or terminal connection
- Light on or dark on operation

Fiber-optic cable for use with small objects

- Retro-reflective and thru-beam








Ultrasonic sensors

- Switch or analog outputs
- Sensing distances up to 6m
- Stainless steel housing
- Quick disconnect

Spec Tech Industrial 203 Vest Ave. Valley Park, MO 63088 Phone: 888 SPECTECH
Fax: 636 537-1405 www.spectechind.com

Selection guide

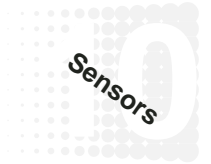
Inductive proximity sensors








Item	Mounting		Connection			Output				
	Shielded	Unshielded	Cable	Quick Disconnect	Terminal	2 wire DC	2 wire AC	3 wire DC	4 wire DC	4 wire AC
.8mm Sensing range 4mm Cylindrical  SIF0.8Z4NU2P0	● —	— —	● —	● —	— —	— —	— —	● —	— —	— —
1.5mm Sensing range 6mm Cylindrical  SIF1.5Z6NC8P0	●	—	●	●	—	—	—	●	—	—
1.5mm Sensing range 8mm Cylindrical  SIF1.5M8NV2P0	● ●	— —	● ●	— ●	— —	● —	— —	— ●	— —	— —
2mm Sensing range 8mm Cylindrical  SIN2M8NC1P0	—	●	●	●	—	—	—	●	—	—
2mm Sensing range 12mm Cylindrical  SIF2M12NV2P0	● ● ● ●	— — — —	● ● ● ●	— ● ● —	— — — —	● — — —	— ● — —	— — ● —	— — — ●	— — — —
2mm Sensing range 28mm Block  SIF2B28NV0.1P0	●	—	●	—	—	—	—	●	—	—
3mm Sensing range 8mm Cylindrical  SIN3M8NV2P0	—	●	●	●	—	—	—	●	—	—

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Selection guide

Inductive proximity sensors










Item	Mounting		Connection			Output				
	Shielded	Unshielded	Cable	Quick Disconnect	Terminal	2 wire DC	2 wire AC	3 wire DC	4 wire DC	4 wire AC
4mm Sensing range 12mm Cylindrical  SIN4M12NV2P0	—	●	●	—	—	●	—	—	—	—
5mm Sensing range 18mm Cylindrical  SIF5M18NV2P0	●	—	●	—	—	●	—	—	—	—
6mm Sensing range 12mm Cylindrical  SIN6M12NV2P0	—	●	●	●	—	—	—	●	—	—
6mm Sensing range 45mm Block  SIF6B45NV2P0	●	—	●	—	—	—	—	●	—	—
8mm Sensing range 18mm Cylindrical  SIN8M18NV2P0	—	●	●	—	—	●	—	—	—	—
10mm Sensing range 30mm Cylindrical  SIF10M30NV2P0	●	—	●	—	—	●	—	—	—	—
12mm Sensing range 18mm Cylindrical  SIN12M18NC1P0	—	●	●	●	—	—	—	●	—	—

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Selection guide

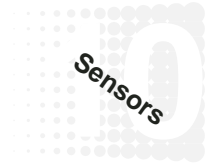
Inductive proximity sensors


Item	Mounting		Connection			Output				
	Shielded	Unshielded	Cable	Quick Disconnect	Terminal	2 wire DC	2 wire AC	3 wire DC	4 wire DC	4 wire AC
<p style="color: red;">15mm Sensing range 30mm Cylindrical</p>  <p>SIN15M30NV2P0</p>	— — — —	● ● ● ●	● ● ● ●	— ● ● —	— — — —	● — — —	— ● — —	— — ● —	— — — ●	— — — —
<p style="color: red;">15mm Sensing range 30mm Block</p>  <p>SIN15Q30NTA0</p>	—	●	—	—	●	—	●	—	—	—
<p style="color: red;">15mm Sensing range 40mm Block</p>  <p>SIF15Q40NTP0</p>	● ● ●	— — —	— — —	● — —	● ● ●	— — —	— — —	● — —	— ● —	— — ●
<p style="color: red;">20mm Sensing range 40mm Block</p>  <p>SIF20Q40NTP0</p>	● ● —	— — ●	— — —	● ● —	● ● ●	— — —	— — —	● — —	— ● —	— — ●
<p style="color: red;">30mm Sensing range 40mm Block</p>  <p>SIN30Q40NTP0</p>	— — —	● ● ●	— — —	● ● —	● ● ●	— — —	— — —	● — —	— ● —	— — ●
<p style="color: red;">40mm Sensing range 80mm Block</p>  <p>SIF40Q80NTPK</p>	●	—	—	—	●	—	—	—	●	—
<p style="color: red;">50mm Sensing range 80mm Block</p>  <p>SIN50Q80NTP0</p>	— —	● ●	— —	— —	● ●	— —	— —	● —	— ●	— —

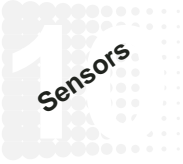
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Selection guide

Capacitive proximity sensors









Item	Mounting		Connection			Output				
	Shielded	Unshielded	Cable	Quick Disconnect	Terminal	2 wire DC	2 wire AC	3 wire DC	4 wire DC	4 wire AC
<p style="color: red;">10mm Sensing range 30mm Cylindrical</p>  <p>SCF10M30NV2P0</p>	● ●	— —	● ●	— ●	— —	— —	● —	— ●	— —	— —



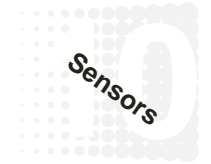
Selection guide




Photoelectric

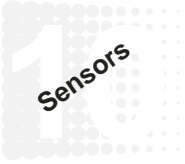
Item	Connection			Output 3 wire DC	Mode		
	Cable	Quick Disconnect	Terminal		Diffused	Retro-reflective	Fiber optic
<b style="color: red;">200mm Sensing range 18mm Cylindrical  SOD200M18NC1P0	—	●	—	●	●	—	—
<b style="color: red;">400mm Sensing range 26mm Block  SOD400B26NU2P0	●	—	—	●	●	—	—
<b style="color: red;">800mm Sensing range 75mm Block 10  SOD800B75NTPOS	—	—	●	●	●	—	—
<b style="color: red;">2000mm Sensing range 26mm Block  SOR2000B26NU2P0	●	—	—	●	—	●	—
<b style="color: red;">2000mm Sensing range 40mm Block  SOD2000B75NTKK	●	●	—	●	—	●	—
<b style="color: red;">3000mm Sensing range 18mm Cylindrical  SOR3000M18NC1P0	—	●	—	●	—	●	—

Selection guide

Photoelectric







Item	Connection			Output	Mode		
	Cable	Quick Disconnect	Terminal		Diffused	Retro-reflective	Fiber optic
5000mm Sensing range 75mm Block  SOR5000B75NTPOS	—	—	●	●	—	●	—
Fiber optic 18mm Cylindrical  SOLXM18NV2P0	—	●	—	●	—	—	●
Fiber optic 50mm Block  SOLXB50NU2POS	●	—	—	●	—	—	●



Selection guide

Ultrasonic

Item	Connection			
	Quick Disconnect	PNP 3 wire DC	NPN 3 wire DC	Analog 4 – 20mA / 0 – 10VDC
<b style="color: red;">500mm Sensing range <b style="color: red;">30mm Cylindrical  SUD500M30NC1POS	● ●	● —	● —	— ●
<b style="color: red;">2000mm Sensing range <b style="color: red;">30mm Cylindrical  SUD2000M30NC1POS	● ●	● —	● —	— ●
<b style="color: red;">4000mm Sensing range <b style="color: red;">30mm Cylindrical  SUD4000M30NC1POS	● ●	● —	● —	— ●
<b style="color: red;">6000mm Sensing range <b style="color: red;">30mm Cylindrical  SUD6000M30NC1POS	● ●	● —	● —	— ●

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