

Capacitive Sensors - Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable Range (mm) | Nonembed. Range (mm) | Output |
|--|--------------------------|-----------|------------------|-----------------------|----------------------|---------------|
| 12 mm - Embeddable, eurofast® Connector | BC 3-M12-AN6X-0.2M-RS 4T | M2601190 | | 3 | N/A | 3-Wire DC NPN |
| | BC 3-M12-AP6X-0.2M-RS 4T | M2601091 | | 3 | N/A | 3-Wire DC PNP |
| 12 mm - Embeddable, Potted-In Cable | BC 3-M12-AN6X | M2601100 | | 3 | N/A | 3-Wire DC NPN |
| | BC 3-M12-AP6X | M2601000 | | 3 | N/A | 3-Wire DC PNP |
| 12 mm - Embeddable, eurofast Connector | BC 3-S12-AN6X-0.2M-RS 4T | M2601390 | | 3 | 4.5 | 3-Wire DC NPN |
| | BC 3-S12-AP6X-0.2M-RS 4T | M2601291 | | 3 | 4.5 | 3-Wire DC PNP |
| 12 mm - Embeddable, Potted-In Cable | BC 3-S12-AN6X | M2601300 | | 3 | 4.5 | 3-Wire DC NPN |
| | BC 3-S12-AP6X | M2601200 | | 3 | 4.5 | 3-Wire DC PNP |
| | BC 3-S12-AP6X/S100 | M2601201 | High Temp. 100°C | 3 | 4.5 | |

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



| Voltage | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection Class | Housing Mat. | Face | End Cap | Power LED | Output LED | Mating Cord, Cable Length/Jacket | Wiring Diagram # | Wiring Diagrams |
|-----------|----------------------|------------------------|----------------------|------------------|--------------|------|---------|-----------|------------|----------------------------------|------------------|-------------------------|
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | ABS | PA 12 | N/A | YE | RK 4T-* | 1 | <p>Diagram 1</p> |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | ABS | PA 12 | N/A | YE | RK 4T-* | 2 | <p>Diagram 2</p> |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | ABS | PA 12 | N/A | YE | 2M/PVC | 3 | <p>Diagram 3</p> |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | ABS | PA 12 | N/A | YE | 2M/PVC | 4 | <p>Diagram 4</p> |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | PA 12 | ABS | PA 12 | GN | YE | RK 4T-* | 1 | |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | PA 12 | ABS | PA 12 | GN | YE | RK 4T-* | 2 | |
| 10-30 VDC | 200 | ≤200 | -25 to +70 | IP 67 | PA 12 | ABS | PA 12 | N/A | YE | 2M/PVC | 3 | |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | PA 12 | ABS | PA 12 | N/A | YE | 2M/PVC | 4 | |
| | 100 | ≤200 | -25 to +100 | IP 67 | PA 12 | ABS | PA 12 | N/A | YE | 2M/PVC | 4 | |

Capacitive

* Length in meters..

For material descriptions see page M22.

Capacitive Sensors - Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable Range (mm) | Nonembed. Range (mm) | Output |
|--|--------------------------|-----------|----------|-----------------------|----------------------|---------------|
| 18 mm - Embeddable, <i>euromast</i>® Connector | BC 5-M18-AN4X-0.2M-RS 4T | M2504091 | | 5 | N/A | 3-Wire DC NPN |
| | BC 5-M18-AP4X-0.2M-RS 4T | M2504090 | | 5 | N/A | 3-Wire DC PNP |
| 18 mm - Embeddable, <i>microfast</i>® Connector | BC 5-M18-AZ3X-0.2M-SB 3T | M2305090 | | 5 | N/A | 2-Wire AC |
| 18 mm - Embeddable, Potted-In Cable | BC 5-M18-AN4X | M2504002 | | 5 | N/A | 3-Wire DC NPN |
| | BC 5-M18-AP4X | M2504001 | | 5 | N/A | 3-Wire DC PNP |
| | BC 5-M18-AZ3X | M2305000 | | 5 | N/A | 2-Wire AC |

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| Voltage | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection Class | Housing Mat. | Face | End Cap | Power LED | Output LED | Mating Cord, Cable Length/Jacket | Wiring Diagram # | Wiring Diagrams |
|------------|----------------------|------------------------|----------------------|------------------|--------------|------|---------|-----------|------------|----------------------------------|------------------|-------------------------|
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PBT | PUR | N/A | YE | RK 4T-* | 1 | <p>Diagram 1</p> |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PBT | PUR | N/A | YE | RK 4T-* | 2 | <p>Diagram 2</p> |
| 20-250 AC | 20 | ≤500 | -25 to +70 | IP 67 | CPB | PBT | PUR | N/A | YE | KB 3T-* | 5 | <p>Diagram 3</p> |
| 20-250 AC | 20 | ≤500 | -25 to +70 | IP 67 | CPB | PBT | PUR | N/A | YE | KB 3T-* | 6 | <p>Diagram 4</p> |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PBT | PUR | N/A | YE | 2M/PVC | 3 | <p>Diagram 5</p> |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PBT | PUR | N/A | YE | 2M/PVC | 4 | <p>Diagram 6</p> |
| 20-250 VAC | 20 | ≤500 | -25 to +70 | IP 67 | CPB | PBT | PUR | N/A | YE | 2M/PVC | 6 | <p>Diagram 6</p> |

Capacitive

* Length in meters.

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Capacitive Sensors - Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable Range (mm) | Nonembed. Range (mm) | Output |
|--|--|---------------------|---------------|-----------------------|----------------------|---------------|
| 30 mm - Embeddable, eurofast® Connector | BC10-M30-AN4X-H1141 | M2501300 | | 10 | N/A | 3-Wire DC NPN |
| | BC10-M30-AP4X-H1141 | M2501200 | | 10 | N/A | 3-Wire DC PNP |
| | BC10-M30-VN4X-H1141 | M2502120 | Comp. Outputs | 10 | N/A | 4-Wire DC NPN |
| | BC10-M30-VP4X-H1141 | M2502010 | Comp. Outputs | 10 | N/A | 4-Wire DC PNP |
| | 30 mm - Embeddable, microfast Connector | BC10-M30-AZ3X-B3131 | M2310030 | | 10 | N/A |

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| Voltage | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection Class | Housing Mat. | Face | End Cap | Power LED | Output LED | Mating Cord, Cable Length/Jacket | Wiring Diagram # | Wiring Diagrams |
|-----------|----------------------|------------------------|----------------------|------------------|--------------|-------|---------|-----------|------------|----------------------------------|------------------|----------------------|
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | RK 4T-* | 1 | Diagram 1 |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | RK 4T-* | 2 | Diagram 2 |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | RK 4.4T-* | 3 | Diagram 3 |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | RK 4.4T-* | 4 | Diagram 4 |
| 20-250 AC | 20 | ≤500 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | KB 3T-* | 5 | Diagram 5 |

Capacitive

* Length in meters.

For material descriptions see page M22.

Capacitive Sensors - Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable Range (mm) | Nonembed. Range (mm) | Output |
|---------------|---------------|-----------|---------------|-----------------------|----------------------|---------------|
| | BC10-M30-VN4X | M2502100 | Comp. Outputs | 10 | N/A | 4-Wire DC NPN |
| | BC10-M30-VP4X | M2502000 | Comp. Outputs | 10 | N/A | 4-Wire DC PNP |
| | BC10-M30-AZ3X | M2310000 | 10 | | N/A | 2-Wire AC |

"S250" in part number designates without potentiometer.

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| Voltage | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Mating Cord, Cable Length/Jacket | Wiring Diagram # | Wiring Diagrams |
|------------|----------------------|------------------------|----------------------|------------|---------|-------|---------|-----------|------------|----------------------------------|------------------|---|
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | 2M/PVC | 1 | <p>Diagram 1</p> <p>Diagram 2</p> |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | 2M/PVC | 2 | <p>Diagram 3</p> <p>Diagram 4</p> |
| 20-250 VAC | 20 | ≤500 | -25 to +70 | IP 67 | CPB | PA 12 | PA 66 | N/A | YE | 2M/PVC | 3 | |

* Length in meters.

Capacitive

For material descriptions see page M22.