

Inductive
Sensors



| Housing Style | Part Number | ID Number | Features | Embeddable | Sensing Range (mm) | Output |
|--|------------------|-----------|------------------|------------|--------------------|-----------------|
| <p>12 mm - Embeddable/Nonembeddable, Plastic Potted-In Cable</p> | Bi 2-P12-Y0 | T1009300 | | • | 2 | 2-Wire DC NAMUR |
| | Bi 2-P12-Y0/S100 | T1030200 | High Temp. 100°C | • | 2 | |
| | Bi 2-P12-Y0X | T4030000 | | • | 2 | |
| | Bi 2-P12-Y1X/S97 | T4030021 | Low Temp. -40°C | • | 2 | |
| | Ni 5-P12-Y0/S100 | T1024200 | High Temp. 100°C | | 5 | 2-Wire DC NAMUR |
| | Ni 5-P12-Y0X | T4030100 | | | 5 | |
| | Ni 5-P12-Y1 | M1009400 | | | 5 | |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Voltage | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/ Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|----------|----------------------|------------------------|----------------------|------------|---------|-------|---------|-----------|------------|--------------------------|------------------|-------------------------|
| 5-30 VDC | 5000 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | N/A | 2M/PVC | 1 | <p>Diagram 1</p> |
| | 5000 | Remote | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | N/A | 2M/PVC | 1 | |
| | 5000 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| | 5000 | Remote | -40 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/Silicon | 1 | |
| 5-30 VDC | 2000 | Remote | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | N/A | 2M/PVC | 1 | |
| | 2000 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| | 2000 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | N/A | 2M/PVC | 1 | |

Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable | Sensing Range (mm) | Output | |
|---|---|-------------------------|-------------------------|------------|--------------------------------------|---------------|-----------|
| 12 mm - Embeddable/Nonembeddable, Plastic, Potted-In Cable | Bi 3U-S12-AN6X | M1634520 | <i>Uprox</i> | • | 3 | 3-Wire DC NPN | |
| | Ni 8U-S12-AN6X | M1644520 | <i>Uprox</i> | | 8 | | |
| | Bi 3U-S12-AP6X | M1634500 | <i>Uprox</i> | • | 3 | 3-Wire DC PNP | |
| | Ni 8U-S12-AP6X | M1644500 | <i>Uprox</i> | | 8 | | |
| | 12 mm - Embeddable/Nonembeddable, Plastic, Potted-In Cable | Bi 2-S12-AD4X | T4453000 | | • | 2 | 2-Wire DC |
| | | Ni 4-S12-AD4X | T4453200 | | | 4 | |
| Bi 2-S12-AN6X | | T4653100 | | • | 2 | 3-Wire DC NPN | |
| Bi 2-S12-AN7X | | T1713800 | <i>TTL Compatible</i> | • | 2 | | |
| Bi 2-S12-AN7X/S100 | | T1773100 | <i>High Temp. 100°C</i> | • | 2 | | |
| Ni 4-S12-AN6X | | T4653300 | | | 4 | | |
| Ni 4-S12-AN7X | | T1713900 | <i>TTL Compatible</i> | | 4 | | |
| Ni 4-S12-AN7X/S100 | | T1773000 | <i>High Temp. 100°C</i> | | 4 | | |
| Bi 2-S12-AP6X | | T4653000 | | • | 2 | 3-Wire DC PNP | |
| Bi 2-S12-AP6X/S97 | | M1664500 | <i>Low Temp. -40°C</i> | • | 2 | | |
| Bi 2-S12-AP7X/S100 | | T1755500 | <i>High Temp. 100°C</i> | • | 2 | | |
| Ni 4-S12-AP6X | | T4653200 | | | 4 | | |
| Ni 4-S12-AP6X/S97 | | M4653221 | <i>Low Temp. -40°C</i> | | 4 | | |
| Ni 4-S12-AP7X/S100 | | T1768100 | <i>High Temp. 100°C</i> | | 4 | | |
| Ni 8-S12-AP6X | | T4611381 | <i>Extended Range</i> | | 8 | | |
| Bi 2-S12-AZ31X | | T1302000 | | • | 2 | 2-Wire AC/DC | |
| Bi 2-S12-AZ31X/S97 | | M1302002 | <i>Low Temp. -40°C</i> | • | 2 | | |
| Bi 2-S12-AZ31X/S100 | | M1302001 | <i>High Temp. 100°C</i> | • | 2 | | |
| Ni 4-S12-AZ31X | | T1302200 | | | 4 | | |
| Ni 4-S12-AZ31X/S97 | | M1302202 | <i>Low Temp. -40°C</i> | | 4 | | |
| Ni 4-S12-AZ31X/S100 | T1302201 | <i>High Temp. 100°C</i> | | 4 | | | |
| Bi 2-S12-ADZ32X | T4453091 | | • | 2 | 2-Wire AC/DC Short-Circuit Protected | | |
| Ni 4-S12-ADZ32X | T4453292 | | | 4 | | | |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Voltage | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/ Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|--------------------------|----------------------|------------------------|----------------------|------------|---------|-------|---------|-----------|------------|--------------------------|------------------|----------------------|
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 68 | PBT | PBT | EPTR | N/A | YE | 2M/PVC | 2 | Diagram 1 |
| | 2000 | ≤200 | -30 to +85 | IP 68 | PBT | PBT | EPTR | N/A | YE | 2M/PVC | 2 | |
| 10-30 VDC | 3000 | ≤200 | -30 to +85 | IP 68 | PBT | PBT | EPTR | N/A | YE | 2M/PVC | 3 | Diagram 2 |
| | 2000 | ≤200 | -30 to +85 | IP 68 | PBT | PBT | EPTR | N/A | YE | 2M/PVC | 3 | |
| 10-65 VDC | 1000 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | Diagram 3 |
| | 1000 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| 10-30 VDC | 2000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | Diagram 4 |
| | 2000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 2000 | ≤200 | -25 to +100 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 2000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 1500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 1500 | ≤200 | -25 to +100 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| 10-30 VDC | 2000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 2000 | ≤200 | -40 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/Silicon | 3 | |
| | 2000 | ≤200 | -25 to +100 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 2000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 2000 | ≤200 | -40 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/Silicon | 3 | |
| | 1500 | ≤200 | -25 to +100 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 2000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| 20-250 VAC 10-300 VDC | 20 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |
| | 20 | ≤100 | -40 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/Silicon | 4 | |
| | 20 | ≤100 | -25 to +100 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |
| | 20 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |
| | 20 | ≤100 | -40 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/Silicon | 4 | |
| | 20 | ≤100 | -25 to +100 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |
| 20-250 VAC 10-300 VDC | 20 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |
| | 20 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |

Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable | Sensing Range (mm) | Output |
|---|--------------------|-----------|------------------|------------|--------------------|---------------|
| 18 mm - Embeddable and Nonembeddable, Partial Threading, Potted-In Cable | Bi 5-S18-AD4X | T4456000 | | • | 5 | 2-Wire DC |
| | Ni 8-S18-AD4X | T4456200 | | | 8 | |
| | Bi 5-S18-AN6X | T4656100 | | • | 5 | 3-Wire DC NPN |
| | Bi 5-S18-AN7X | T1714000 | | • | 5 | |
| | Bi 5-S18-AN7X/S100 | T1773400 | High Temp. 100°C | • | 5 | |
| | Bi 5U-S18-AN6X | M1635520 | Uprox | • | 5 | |
| | Ni 8-S18-AN6X | T4656300 | | | 8 | |
| | Ni 8-S18-AN7X | T1714100 | | | 8 | |
| | Ni 8-S18-AN7X/S100 | T1773250 | High Temp. 100°C | | 8 | |
| | Ni 12U-S18-AN6X | M1645520 | Uprox | | 12 | |
| | Bi 5-S18-AP6X | T4656000 | | • | 5 | 3-Wire DC PNP |
| | Bi 5-S18-AP7X/S100 | T1754200 | High Temp. 100°C | • | 5 | |
| | Bi 5U-S18-AP6X | M1635500 | Uprox | • | 5 | |
| | Ni 8-S18-AP6X | T4656200 | | | 8 | |
| | Ni 8-S18-AP7X/S100 | T1749850 | High Temp. 100°C | | 8 | |
| | Ni 12U-S18-AP6X | M1645500 | Uprox | | 12 | |
| | Bi 5-S18-VN4X | T1522200 | Comp. Output | • | 5 | 4-Wire DC NPN |
| | Ni 8-S18-VN4X | T1522100 | Comp. Output | | 8 | |
| | Bi 5-S18-VP4X | T1513400 | | • | 5 | 4-Wire DC PNP |
| | Bi 5-S18-VP4X/S100 | M1513402 | High Temp. 100°C | • | 5 | |
| | Ni 8-S18-VP4X | T1513500 | | | 8 | |
| | Bi 5-S18-AZ3X | T4350400 | | • | 5 | 2-Wire AC/DC |
| | Bi 5-S18-AZ3X/S100 | M1373400 | High Temp. 100°C | • | 5 | |
| | Ni 8-S18-AZ3X | T4350500 | | | 8 | |
| | Ni 8-S18-AZ3X/S100 | M1371800 | High Temp. 100°C | | 8 | |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Output | Switching Freq. (Hz) | Operating Current (mA) VAC/VDC | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/ Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|--------------------------|----------------------|--------------------------------|----------------------|------------|---------|-------|---------|-----------|------------|--------------------------|------------------|----------------------|
| 10-65 VDC | 1000 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | Diagram 1 |
| | 500 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | Diagram 2 |
| | 1000 | ≤150 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 1000 | ≤150 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 2500 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 1000 | ≤150 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 1000 | ≤150 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 2 | |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | Diagram 3 |
| | 1000 | ≤150 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 2500 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 1000 | ≤150 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 3 | |
| 10-65 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | Diagram 4 |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |
| 10-65 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 5 | Diagram 5 |
| | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 5 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 5 | |
| 20-250 VAC 10-300 VDC | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | RD | 2M/PVC | 6 | Diagram 6 |
| | 20 | ≤400/300 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 6 | |
| | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | RD | 2M/PVC | 6 | |
| | 20 | ≤400/300 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 6 | |

Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable | Sensing Range (mm) | Output |
|--|------------------|-----------|-------------------------|------------|--------------------|--------------|
| 18 mm - Embeddable and Nonembeddable, Full Threading, Potted-In Cable | Bi 5-P18-Y0 | T1009500 | | • | 5 | 2-Wire NAMUR |
| | Bi 5-P18-Y0X | T4035000 | | • | 5 | |
| | Bi 5-P18-Y0/S100 | M1024500 | <i>High Temp. 100°C</i> | • | 5 | |
| | Ni10-P18-Y0X | T4035100 | | | 10 | |
| | Ni10-P18-Y1 | M1009600 | | | 10 | |
| | Ni10-P18-Y0/S100 | M1031700 | <i>High Temp. 100°C</i> | | 10 | |
| | | | | | | |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Output | Switching Freq. (Hz) | Operating Current (mA) VAC/VDC | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/ Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|----------|----------------------|--------------------------------|----------------------|------------|---------|-------|---------|-----------|------------|--------------------------|------------------|-------------------------|
| 5-30 VDC | 1000 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | N/A | 2M/PVC | 1 | <p>Diagram 1</p> |
| | 1000 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| | 1000 | Remote | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | N/A | 2M/PVC | 1 | |
| | 500 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| | 500 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | N/A | 2M/PVC | 1 | |
| | 500 | Remote | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | N/A | 2M/PVC | 1 | |

Barrels



| Housing Style | Part Number | ID Number | Features | Sensing Range (mm) | Output |
|---|-------------------|-----------|----------|--------------------|-----------------|
| 20 mm - Nonembeddable, Smooth Barrel, Potted-In Cable | Ni 10-K20-AN6X | M4664100 | | 10 | 3-Wire DC NPN |
| | Ni 10-K20-AP6X | M4664000 | | 10 | 3-Wire DC PNP |
| | Ni 10-K20-Y1 | M1007200 | | 10 | 2-Wire DC NAMUR |
| 20 mm - Nonembeddable, Smooth Barrel, Potted-In Cable | Ni 10-K20-AZ3X | M4358500 | | 10 | 2-Wire AC/DC |
| 20 mm - Nonembeddable, Smooth Barrel, Terminal Chamber | Ni 10-K20SK-AN6X2 | T4664800 | | 10 | 3-Wire DC NPN |
| | Ni 10-K20SK-AP6X2 | T4664693 | | 10 | 3-Wire DC PNP |
| 20 mm - Nonembeddable, Smooth Barrel, Terminal Chamber | Ni 10-K20SK-AZ3X2 | T4359200 | | 10 | 2-Wire AC/DC |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Output | Switching Freq. (Hz) | Operating Current (mA)VAC/VDC | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|--------------------------|----------------------|-------------------------------|----------------------|------------|---------|-------|---------|-----------|------------|-------------------------|------------------|-------------------------|
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | <p>Diagram 1</p> |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | <p>Diagram 2</p> |
| 5-30 VDC | 500 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | <p>Diagram 3</p> |
| 20-250 VAC 10-300 VDC | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | <p>Diagram 4</p> |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | GN | YE | - - - - | 5 | <p>Diagram 5</p> |
| 10-30 VDC | 1000 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | GN | YE | - - - - | 6 | <p>Diagram 6</p> |
| 20-250 VAC 10-300 VDC | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | GN | RD | - - - - | 7 | <p>Diagram 7</p> |

Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable | Sensing Range (mm) | Output |
|--|--------------|-----------|----------|------------|--------------------|-----------------|
| 30 mm - Embeddable/Nonembeddable, Full Threading, Potted-In Cable | Bi10-P30-Y0X | T4040000 | | • | 10 | 2-Wire DC NAMUR |
| | Bi10-P30-Y1 | M1009700 | | • | 10 | |
| | Ni15-P30-Y0X | T4040100 | | | 15 | |
| | Ni15-P30-Y1 | M1009800 | | | 15 | |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Voltage | Switching Freq. (Hz) | Operating Current AC/DC (mA) | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/ Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|----------|----------------------|------------------------------|----------------------|------------|---------|-------|---------|-----------|------------|--------------------------|------------------|-------------------------|
| 5-30 VDC | 500 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | <p>Diagram 1</p> |
| | 500 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | N/A | 2M/PVC | 1 | |
| | 200 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| | 200 | Remote | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | N/A | 2M/PVC | 1 | |

Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable | Sensing Range (mm) | Output | |
|---|--------------------|-----------|-------------------------|------------|--------------------|-----------|------------------|
| 30 mm - Embeddable/Nonembeddable, Partial Threading, Potted-In Cable | Bi10-S30-AD4X | T4459000 | | • | 10 | 2-Wire DC | |
| | Ni15-S30-AD4X | T4459200 | | | 15 | | |
| | Bi10-S30-AN6X | T4659100 | | | • | 10 | 3-Wire DC NPN |
| | Bi10-S30-AN7X | T1720100 | <i>TTL Compatible</i> | • | 10 | | |
| | Bi10-S30-AN7X/S100 | T1777700 | <i>High Temp. 100°C</i> | • | 10 | | |
| | Bi10U-S30-AN6X | M1636520 | <i>Uprox</i> | • | 10 | | |
| | Ni15-S30-AN6X | T4659300 | | | 15 | | |
| | Ni15-S30-AN6X/S100 | T4659321 | <i>High Temp. 100°C</i> | | 15 | | |
| | Ni15-S30-AN6X/S97 | M4659322 | <i>Low Temp. -40°C</i> | | 15 | | |
| | Ni15-S30-AN7X | T1720200 | <i>TTL Compatible</i> | | 15 | | |
| | Ni15-S30-AN7X/S100 | T1777600 | <i>High Temp. 100°C</i> | | 15 | | |
| | Ni20U-S30-AN6X | M1646520 | <i>Uprox</i> | | 20 | | |
| | Bi10-S30-AP6X | T4659000 | | | • | 10 | 3-Wire DC PNP |
| | Bi10-S30-AP6X/S100 | M4659002 | <i>High Temp. 100°C</i> | • | 10 | | |
| | Bi10-S30-AP6X/S97 | M4659003 | <i>Low Temp. -40°C</i> | • | 10 | | |
| | Bi10U-S30-AP6X | M1636500 | <i>Uprox</i> | • | 10 | | |
| | Ni15-S30-AP6X | T4659200 | | | 15 | | |
| | Ni20U-S30-AP6X | M1646500 | <i>Uprox</i> | | 20 | | |
| | Bi10-S30-VN4X | M1522300 | <i>Comp. Output</i> | | • | 10 | 4-Wire DC NPN |
| | Ni15-S30-VN4X | T1522400 | <i>Comp. Output</i> | | 15 | | |
| | Bi10-S30-VP4X | T1512200 | <i>Comp. Output</i> | | • | 10 | 4-Wire DC PNP |
| | Ni15-S30-VP4X | T1563000 | <i>Comp. Output</i> | | 15 | | |
| | Bi10-S30-VP4X/S100 | M1514000 | <i>High Temp. 100°C</i> | | • | 10 | |
| | Bi10-S30-AZ3X | T4355400 | | | • | 10 | 2-Wire AC/DC |
| | Bi10-S30-AZ3X/S100 | M1371900 | <i>High Temp. 100°C</i> | | • | 10 | |
| | Ni15-S30-AZ3X | T4355500 | | | | 15 | |
| | Ni15-S30-AZ3X/S100 | T1375800 | <i>High Temp. 100°C</i> | | | 15 | |

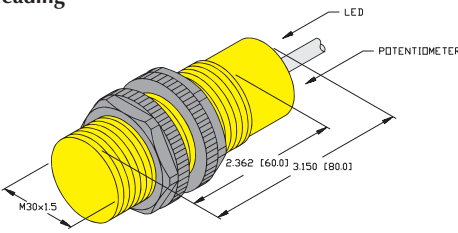
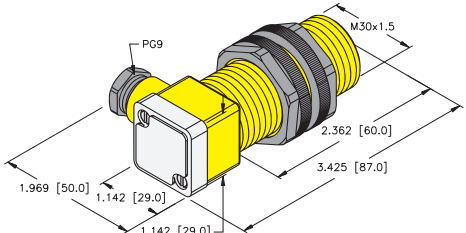
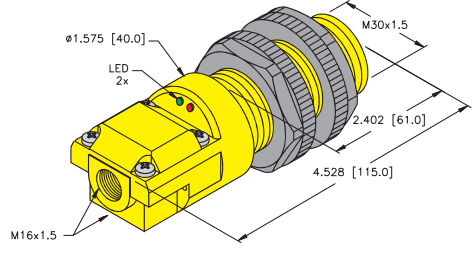
TURCK mold-on connectors available on all cable sensors. See page M25.



| Voltage | Switching Freq. (Hz) | Operating Current AC/DC (mA) | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/ Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|--------------------------|----------------------|------------------------------|----------------------|------------|---------|-------|---------|-----------|------------|--------------------------|------------------|----------------------|
| 10-65 VDC | 500 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | Diagram 1 |
| | 200 | ≤100 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 1 | |
| 10-30 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | Diagram 2 |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 2000 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 500 | ≤200 | -40 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/Silicon | 2 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| 10-30 VDC | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 2 | Diagram 3 |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 2000 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 2 | |
| | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 2 | |
| 10-30 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | Diagram 4 |
| | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 500 | ≤200 | -40 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/Silicon | 3 | |
| | 2000 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 3 | |
| 10-65 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | Diagram 5 |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 4 | |
| 10-65 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 5 | Diagram 6 |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | YE | 2M/PVC | 5 | |
| | 500 | ≤200 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | YE | 2M/PVC | 5 | |
| 20-250 VAC 10-300 VDC | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | RD | 2M/PVC | 6 | |
| | 20 | ≤400/300 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | RD | 2M/PVC | 6 | |
| | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | EPTR | N/A | RD | 2M/PVC | 6 | |
| | 20 | ≤400/300 | -25 to +100 | IP 67 | PA 12 | IRPA | EPTR | N/A | RD | 2M/PVC | 6 | |

Barrels



| Housing Style | Part Number | ID Number | Features | Embeddable | Sensing Range (mm) | Output |
|---|------------------|-----------|----------------------|------------|--------------------|----------------------------|
| 30 mm - Embeddable, Potted-In Cable, Partial Threading  | Bi10NF-S30-AN6X | M1621500 | <i>Nonferrous</i> | • | 10 | 3-Wire DC NPN |
| | Bi10NF-S30-AP6X | M1611500 | <i>Nonferrous</i> | • | 10 | 3-Wire DC PNP |
| 30 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber  | Bi10-P30SK-AN6X2 | T4660000 | | • | 10 | 3-Wire DC NPN |
| | Bi10U-P30SK-AN6X | M1636720 | <i>Uprox</i> | • | 10 | |
| | Ni15-P30SK-AN6X2 | T4660200 | | | 15 | |
| | Ni20U-P30SK-AN6X | M1646720 | <i>Uprox</i> | | 20 | |
| | Bi10-P30SK-AP6X2 | T4659900 | | • | 10 | 3-Wire DC PNP |
| | Bi10U-P30SK-AP6X | M1636700 | <i>Uprox</i> | • | 10 | |
| | Ni15-P30SK-AP6X2 | T4660100 | | | 15 | |
| | Ni20U-P30SK-AP6X | M1646700 | <i>Uprox</i> | | 20 | |
| | Bi10-P30SK-AZ3X2 | T4356400 | | • | 10 | 2-Wire AC/DC Normally Open |
| | Ni15-P30SK-AZ3X2 | T4356500 | | | 15 | |
| 30 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber  | Bi10-P30SR-AP6X | M1611600 | | | 10 | 3-Wire DC PNP |
| | Bi10-P30SR-FZ3X2 | M1342000 | | • | 10 | 2-Wire AC |
| | Ni15-P30SR-FZ3X2 | M1342100 | | | 15 | |
| | Bi10-P30SR-VN4X2 | M1575200 | <i>Comp. Outputs</i> | • | 10 | 4-Wire DC NPN |
| | Ni15-P30SR-VN4X2 | M1575300 | <i>Comp. Outputs</i> | | 15 | |
| | Bi10-P30SR-VP4X2 | M1565200 | <i>Comp. Outputs</i> | • | 10 | 4-Wire DC PNP |
| | Ni15-P30SR-VP4X2 | M1565300 | <i>Comp. Outputs</i> | | 15 | |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Voltage | Switching Freq. (Hz) | Operating Current AC/DC (mA) | Operating Temp. (°C) | Protection | Housing | Face | End Cap | Power LED | Output LED | Cable Length/ Cable Mat. | Wiring Diagram # | Wiring Diagrams |
|--------------------------|----------------------|------------------------------|----------------------|------------|---------|-------|---------|-----------|------------|--------------------------|------------------|----------------------|
| 10-30 VDC | 500 | ≤200 | 0 to +60 | IP 67 | CPB | PA 12 | EPTR | N/A | YE | PVC | 1 | Diagram 1 |
| 10-30 VDC | 500 | ≤200 | 0 to +60 | IP 67 | CPB | PA 12 | EPTR | N/A | YE | PVC | 2 | Diagram 2 |
| 10-30 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 3 | Diagram 3 |
| | 2000 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | ---- | N/A | YE | ---- | 3 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 3 | |
| | 1500 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | ---- | N/A | YE | ---- | 3 | |
| 10-30 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 4 | Diagram 4 |
| | 2000 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | ---- | N/A | YE | ---- | 4 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 4 | |
| | 1500 | ≤200 | -30 to +85 | IP 68 | PA 12 | PA 12 | ---- | N/A | YE | ---- | 4 | |
| 20-250 VAC 10-300 VDC | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | RD | ---- | 5 | Diagram 5 |
| | 20 | ≤400/300 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | RD | ---- | 5 | |
| 10-30 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 4 | |
| 20-250 VAC | 20 | ≤500 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | RD | ---- | 5 | Diagram 6 |
| | 20 | ≤500 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | RD | ---- | 5 | |
| 10-65 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 6 | Diagram 7 |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 6 | |
| 10-65 VDC | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 7 | |
| | 500 | ≤200 | -25 to +70 | IP 67 | PA 12 | PA 12 | ---- | GN | YE | ---- | 7 | |

Barrels



| Housing Style | Part Number | ID Number | Features | Sensing Range (mm) | Output |
|---|---------------------|-----------|---------------|--------------------|-----------------|
| 40 mm - Nonembeddable, Smooth Plastic Barrel, minifast® Connection | Ni30-K40-VN4X-B2141 | M4590400 | Comp. Outputs | 30 | 4-Wire DC NPN |
| | Ni30-K40-VP4X-B2141 | M4590500 | Comp. Outputs | 30 | 4-Wire DC PNP |
| | Ni30-K40-AZ3X-B2131 | M4375800 | | 30 | 2-Wire AC/DC |
| 40 mm - Nonembeddable, Smooth Plastic Barrel, Potted-In Cable | Ni20-K40-AN6X | M1676900 | | 20 | 3-Wire DC NPN |
| | Ni20-K40-AP6X | M1655900 | | 20 | 3-Wire DC PNP |
| | Ni20-K40-Y1 | M1007300 | | 20 | 2-Wire DC NAMUR |
| 40 mm - Nonembeddable, Smooth Plastic Barrel, Potted-In Cable | Ni20-K40-AZ3X | M1306500 | | 20 | 2-Wire AC/DC |

TURCK mold-on connectors available on all cable sensors. See page M25.



| Voltage | Switching Freq. (Hz) | Operating Current AC/DC (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 | ABS | ABS | ---- | N/A | YE | RK 40-*M | 1 | <p>Diagram 1</p> |
| 10-65 VDC | 100 | ≤200 | -25 to +70 | IP 67 | ABS | ABS | ---- | N/A | YE | RK 40-*M | 2 | <p>Diagram 2</p> |
| 20-250 VAC 10-300 VDC | 20 | ≤400/300 | -25 to +70 | IP 67 | ABS | ABS | ---- | N/A | RD | RK 30-*M | 3 | <p>Diagram 3</p> |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | ABS | ABS | EPTR | N/A | YE | 2M/PVC | 4 | <p>Diagram 4</p> |
| 10-30 VDC | 100 | ≤200 | -25 to +70 | IP 67 | ABS | ABS | EPTR | N/A | YE | 2M/PVC | 5 | <p>Diagram 5</p> |
| 5-30 VDC | 100 | Remote | -25 to +70 | IP 67 | ABS | ABS | EPTR | N/A | N/A | 2M/PVC | 6 | <p>Diagram 6</p> |
| 20-250 VAC 10-300 VDC | 20 | ≤400/300 | -25 to +70 | IP 67 | ABS | ABS | EPTR | N/A | RD | 2M/PVC | 7 | <p>Diagram 7</p> |

Barrels

* Length in meters.