

# Inductive Sensors



| Housing Style                                  | Part Number                                                   | ID Number            | Features              | Sensing Range (mm) | Output                               |
|------------------------------------------------|---------------------------------------------------------------|----------------------|-----------------------|--------------------|--------------------------------------|
| <b>12 mm - Embeddable, Potted-In Cable</b><br> | Bi 3-GT12K-AD4X/S1610                                         | T4405083-2           | <i>armorguard</i>     | 3                  | 2-Wire DC                            |
|                                                | Bi 2-EG12HK-AN6X/S1589                                        | T4605192             | <i>weldguard</i>      | 2                  | 3-Wire DC NPN                        |
|                                                | Bi 2-G12K-AN6X                                                | T4671200             | <i>Short Barrel</i>   | 2                  |                                      |
|                                                | Bi 4-G12K-AN6X                                                | T4670251             | <i>Short Barrel</i>   | 4                  |                                      |
|                                                | Bi 2-G12K-AP6X                                                | T4670200             | <i>Short Barrel</i>   | 2                  | 3-Wire DC PNP                        |
|                                                | Bi 4-G12K-AP6X                                                | T4670250             | <i>Short Barrel</i>   | 4                  |                                      |
|                                                | Bi 2-EG12-Y0X                                                 | T4012000             |                       | 2                  | 2-Wire DC NAMUR                      |
|                                                | Bi 2-G12-Y0                                                   | T1005400             |                       | 2                  |                                      |
|                                                | Bi 2-G12-Y0X                                                  | T4010000             |                       | 2                  |                                      |
|                                                | <b>12 mm - Embeddable, Potted-In Cable</b><br>                | Bi 2-EG12-AN6X       | T4605101              |                    | 2                                    |
| Bi 2-G12-AN6X                                  |                                                               | T4635500             |                       | 2                  |                                      |
| Bi 2-G12-AN7X                                  |                                                               | T4730500             | <i>TTL Compatible</i> | 2                  |                                      |
| Bi 4-G12-AN6X                                  |                                                               | T1690706             | <i>Extended Range</i> | 4                  |                                      |
| Bi 2-EG12-AP6X                                 |                                                               | T4605001             |                       | 2                  | 3-Wire DC PNP                        |
| Bi 2-G12-AP6X                                  |                                                               | T4635400             |                       | 2                  |                                      |
| <b>12 mm - Embeddable, Potted-In Cable</b><br> | Bi 2-G12-ADZ32X                                               | T4205000             |                       | 2                  | 2-Wire AC/DC Short-circuit Protected |
|                                                | Bi 4-G12-ADZ32X                                               | T4205030             | <i>Extended Range</i> | 4                  |                                      |
|                                                | Bi 2-G12-AZ33X                                                | T1304002             |                       | 2                  | 2-Wire AC/DC                         |
|                                                | <b>12 mm - Embeddable, Potted-In Cable, Teflon Coated</b><br> | Bi 2-GT12-ADZ32X/S34 | T4205210              | <i>WFI</i>         | 2                                    |
| Bi 2-GT12-AZ33X/S34                            |                                                               | T1304052             | <i>WFI</i>            | 2                  | 2-Wire AC/DC                         |

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 | 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      | AG      | WG    | EPTR    | N/A       | YE         | 2M/PVC                   | 1                | <b>Diagram 1</b> |
| 10-30 VDC                | 2000                 | ≤200                   | -25 to +70           | IP 67      | WG      | WG    | EPTR    | N/A       | YE         | 2M/PVC                   | 2                |                  |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 2                |                  |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 2                |                  |
| 10-30 VDC                | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 3                | <b>Diagram 2</b> |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 3                |                  |
| 5-30 VDC                 | 5000                 | Remote                 | -25 to +70           | IP 67      | SS      | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 4                | <b>Diagram 3</b> |
|                          | 5000                 | Remote                 | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | N/A        | 2M/PVC                   | 4                |                  |
|                          | 5000                 | Remote                 | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 4                |                  |
| 10-30 VDC                | 2000                 | ≤200                   | -25 to +70           | IP 67      | SS      | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 2                |                  |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 2                |                  |
|                          | 2000                 | ≤150                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 2                |                  |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 2                |                  |
| 10-30 VDC                | 2000                 | ≤200                   | -25 to +70           | IP 67      | SS      | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 3                | <b>Diagram 4</b> |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 3                |                  |
| 20-250 VAC<br>10-300 VDC | 20                   | ≤100                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 5                | <b>Diagram 5</b> |
|                          | 20                   | ≤100                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 5                |                  |
| 35-250 VAC<br>10-300 VDC | 20                   | ≤100                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                   | 5                |                  |
|                          | 20                   | ≤100                   | -25 to +70           | IP 67      | TC      | TC    | EPTR    | N/A       | YE         | 2M/PVC                   | 5                |                  |
| 20-250 VAC<br>10-300 VDC | 20                   | ≤100                   | -25 to +70           | IP 67      | TC      | TC    | EPTR    | N/A       | YE         | 2M/PVC                   | 5                |                  |
|                          | 20                   | ≤100                   | -25 to +70           | IP 67      | TC      | TC    | EPTR    | N/A       | YE         | 2M/PVC                   | 5                |                  |
| 35-250 VAC<br>10-300 VDC | 20                   | ≤100                   | -25 to +70           | IP 67      | TC      | TC    | EPTR    | N/A       | YE         | 2M/PVC                   | 5                |                  |

Barrels

For material descriptions see page M22.