

# Inductive Sensors



| Housing Style   | Part Number        | ID Number                       | Features                        | Sensing Range (mm) | Output  |
|---|--------------------|---------------------------------|---------------------------------|--------------------|---|
| <b>12 mm - Embeddable, Potted-In Cable</b><br>                  | Bi 2-M12-AD4X      | T4405000                        |                                 | 2                  | 2-Wire DC                                     |
|   | Bi 3-M12-AD4X      | T4405035                        | <i>Ext. Range</i>               | 3                  |   |
|   | Bi 3U-EM12-AN6X    | M1634320                        | <b>Uprox</b>                    | 3                  | 3-Wire DC<br>NPN                              |
|   | Bi 3U-M12-AN6X     | M1634120                        | <b>Uprox</b>                    | 3                  |   |
|   | Bi 4-M12-AN6X      | T4607130                        | <i>Ext. Range</i>               | 4                  |   |
|   | Bi 4U-M12-AN6X     | M1634823                        |                                 | 4                  |   |
|   | Bi 2-M12-AP6X      | T4605000                        |                                 | 2                  | 3-Wire DC<br>PNP                              |
|   | Bi 2-M12-AP6X/S100 | M4605003                        | <b>High Temp. 100°C</b>         | 2                  |   |
|   | Bi 3U-EM12-AP6X    | M1634300                        | <b>Uprox</b>                    | 3                  |   |
|   | Bi 3U-M12-AP6X     | M1634100                        | <b>Uprox</b>                    | 3                  |   |
|   | Bi 4-M12-AP6X      | T4607006                        | <i>Ext. Range</i>               | 4                  |   |
|   | Bi 4U-M12-AP6X     | M1634803                        |                                 | 4                  |   |
|   | Bi 2-M12-VN6X      | T1640200                        | <b>Comp. Output</b>             | 2                  | 4-Wire DC<br>NPN                              |
|   | Bi 4-M12-VN6X      | T1643300                        | <b>Ext. Range, Comp. Output</b> | 4                  |   |
| Bi 2-M12-VP6X   | T1630200           | <b>Comp. Output</b>             | 2                               | 4-Wire DC<br>PNP   |   |
| Bi 4-M12-VP6X   | T1633300           | <b>Ext. Range, Comp. Output</b> | 4                               |                    |   |
| <b>12 mm - Embeddable, Potted-In Cable</b><br>                  | Bi 2-EM12-ADZ32X   | T4205092                        |                                 | 2                  | 2-Wire<br>AC/DC<br>Short-circuit<br>Protected |
| <b>12 mm - Embeddable, Potted-In Cable,<br/>PTFE Coated</b><br> | Bi 2U-MT12-ADZ32X  | M4205100                        | <b>Uprox</b>                    | 2                  | 2-Wire<br>AC/DC<br>Short-circuit<br>Protected |

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      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 1                | <b>Diagram 1</b><br> |
|                          | 1000                 | ≤100                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 1                |                      |
| 3-Wire DC NPN            | 3000                 | ≤200                   | -30 to +85           | IP 68      | SS      | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 2                | <b>Diagram 2</b><br> |
|                          | 3000                 | ≤200                   | -30 to +85           | 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                |                      |
|                          | 2000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP   | 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 3</b><br> |
|                          | 2000                 | ≤200                   | -25 to +100          | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 3                |                      |
|                          | 3000                 | ≤200                   | -30 to +85           | IP 68      | SS      | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 3                |                      |
|                          | 3000                 | ≤200                   | -30 to +85           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 3                |                      |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 3                |                      |
|                          | 2000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP   | 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                    | 4                | <b>Diagram 4</b><br> |
|                          | 2000                 | ≤200                   | -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      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 5                | <b>Diagram 5</b><br> |
|                          | 2000                 | ≤200                   | -25 to +70           | IP 67      | CPB     | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 5                |                      |
| 20-250 VAC<br>10-300 VDC | 20                   | ≤100                   | -25 to +70           | IP 67      | SS      | PA 12 | EPTR    | N/A       | YE         | 2M/PVC                    | 6                | <b>Diagram 6</b><br> |
| 20-250 VAC<br>10-300 VDC | 20                   | ≤100                   | -25 to +70           | IP 67      | TC      | TC    | EPTR    | N/A       | YE         | 2M/PVC                    | 6                |                      |

Barrels

For material descriptions see page M36.