

# Inductive Sensors



| Housing Style                                       | Part Number                                    | ID Number   | Features                        | Sensing Range (mm)              | Output                          |    |               |
|---|--|---|---------------------------------|---------------------------------|---------------------------------|----|---------------|
| <b>12 mm - Embeddable, picofast® Connection</b><br> | Bi 4U-M12-AP6X-V1131                           | M1634780  | <i>Uprox+</i>                   | 4                               | 3-Wire DC PNP                   |    |               |
| <b>12 mm - Embeddable, eurofast® Connection</b><br> | Bi 4U-EM12-AN6X-H1141                          | M1634827  | <i>Uprox+</i> , Stainless Steel | 4                               | 3-Wire DC NPN                   |    |               |
|   | Bi 4U-EM12WD-AN6X-H1141                        | M1634841  | <i>Uprox+</i> , Washdown        | 4                               |                                 |    |               |
|   | Bi 4U-M12-AN6X-H1141                           | M1634824  | <i>Uprox+</i>                   | 4                               |                                 |    |               |
|   | Bi 4U-MT12-AN6X-H1141                          | M1634829  | <i>Uprox+</i> , Teflon          | 4                               |                                 |    |               |
|   | 3-Wire DC PNP                                  | Bi 4U-EM12-AP6X-H1141                                 | M1634807                        | <i>Uprox+</i> , Stainless Steel | 4                               |    |               |
|   |  | Bi 4U-EM12WD-AP6X-H1141                               | M1634812                        | <i>Uprox+</i> , Washdown        | 4                               |    |               |
|   |  | Bi 4U-M12-AP6X-H1141                                  | M1634804                        | <i>Uprox+</i>                   | 4                               |    |               |
|   |  | Bi 4U-MT12-AP6X-H1141                                 | M1634809                        | <i>Uprox+</i> , Teflon          | 4                               |    |               |
|   |  | Bi 4U-MT12E-AP6X2-H1141*                              | M1644742                        | <i>Uprox+</i> , Dual LED's      | 4                               |    |               |
|   |  | <b>12 mm - Nonembeddable, eurofast Connection</b><br> | Ni 10U-EM12-AN6X-H1141          | M1634828                        | <i>Uprox+</i> , Stainless Steel | 10 | 3-Wire DC NPN |
| Ni 10U-EM12WD-AN6X-H1141                            | M1634837                                       |   | <i>Uprox+</i> , Washdown        | 10                              |                                 |    |               |
| Ni 10U-M12-AN6X-H1141                               | M1634826                                       |   | <i>Uprox+</i>                   | 10                              |                                 |    |               |
| Ni 10U-MT12-AN6X-H1141                              | M1634830                                       |   | <i>Uprox+</i> , Teflon          | 10                              |                                 |    |               |
| 3-Wire DC PNP                                       | Ni 10U-EM12-AP6X-H1141                         |   | M1634808                        | <i>Uprox+</i> , Stainless Steel | 10                              |    |               |
|   | Ni 10U-EM12WD-AP6X-H1141                       |   | M1634814                        | <i>Uprox+</i> , Washdown        | 10                              |    |               |
|   | Ni 10U-M12-AP6X-H1141                          |   | M1634806                        | <i>Uprox+</i>                   | 10                              |    |               |
|   | Ni 10U-MT12-AP6X-H1141                         |   | M1634810                        | <i>Uprox+</i> , Teflon          | 10                              |    |               |
|   | Ni 10U-MT12E-AP6X2-H1141*                      |   | M1634844                        | <i>Uprox+</i> , Dual LED's      | 10                              |    |               |
|   | <b>12 mm - Embeddable, Potted-in Cable</b><br> |   | Bi 4U-EM12WD-AN6X               | M1634842                        | <i>Uprox+</i> , Washdown        | 4  | 3-Wire DC NPN |
| Bi 4U-M12-AN6X                                      |  | M1634823  | <i>Uprox+</i>                   | 4                               |                                 |    |               |
| 3-Wire DC PNP                                       |  | Bi 4U-EM12WD-AP6X                                     | M1634811                        | <i>Uprox+</i> , Washdown        | 4                               |    |               |
|   |  | Bi 4U-M12-AP6X  | M1634803                        | <i>Uprox+</i>                   | 4                               |    |               |
|   |  | <b>12 mm - Nonembeddable, Potted-in Cable</b><br>     | Ni 10U-EM12WD-AN6X              | M1634838                        | <i>Uprox+</i> , Washdown        | 10 | 3-Wire DC NPN |
|   |  |   | Ni 10U-M12-AN6X                 | M1634825                        | <i>Uprox+</i>                   | 10 |               |
| 3-Wire DC PNP                                       | Ni 10U-EM12WD-AP6X                             | M1634813  | <i>Uprox+</i> , Washdown        | 10                              |                                 |    |               |
|   | Ni 10U-M12-AP6X                                | M1634805  | <i>Uprox+</i>                   | 10                              |                                 |    |               |

\* MT12E = extended barrel length 62mm.

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 | Power LED | Output LED | Mating Cordset | Wiring Diagram # | Wiring Diagrams         |
|-----------|----------------------|------------------------|----------------------|------------|---------|------|-----------|------------|----------------|------------------|-------------------------|
| 10-30 VDC | 2000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | PKG 3Z-*       | 5                | <p><b>Diagram 1</b></p> |
| 10-30 VDC | 2000                 | ≤200                   | -30 to +85           | IP 68      | SS      | LCP  | N/A       | YE         | RK 4T-*        | 1                | <p><b>Diagram 2</b></p> |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | RK 4T-*        | 1                |                         |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | RK 4T-*        | 1                |                         |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68      | TC      | LCP  | N/A       | YE         | RK 4T-*        | 1                |                         |
| 10-30 VDC | 2000                 | ≤200                   | -30 to +85           | IP 68      | SS      | LCP  | N/A       | YE         | RK 4T-*        | 2                | <p><b>Diagram 3</b></p> |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | RK 4T-*        | 2                |                         |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | RK 4T-*        | 2                |                         |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68      | TC      | LCP  | N/A       | YE         | RK 4T-*        | 2                |                         |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68      | TC      | LCP  | GN        | YE         | RK 4.4T-*      | 2                |                         |
| 10-30 VDC | 1000                 | ≤200                   | -30 to +85           | IP 68      | SS      | LCP  | N/A       | YE         | RK 4T-*        | 1                | <p><b>Diagram 4</b></p> |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | RK 4T-*        | 1                |                         |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | RK 4T-*        | 1                |                         |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68      | TC      | LCP  | N/A       | YE         | RK 4T-*        | 1                |                         |
| 10-30 VDC | 1000                 | ≤200                   | -30 to +85           | IP 68      | SS      | LCP  | N/A       | YE         | RK 4T-*        | 2                | <p><b>Diagram 5</b></p> |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | RK 4T-*        | 2                |                         |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | RK 4T-*        | 2                |                         |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68      | TC      | LCP  | N/A       | YE         | RK 4T-*        | 2                |                         |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68      | TC      | LCP  | GN        | YE         | RK 4T-*        | 2                |                         |
| 10-30 VDC | 2000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | 2M/PUR         | 3                | <p><b>Diagram 5</b></p> |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | 2M/PVC         | 3                |                         |
| 10-30 VDC | 2000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | 2M/PUR         | 4                | <p><b>Diagram 5</b></p> |
|           | 2000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | 2M/PVC         | 4                |                         |
| 10-30 VDC | 1000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | 2M/PUR         | 3                | <p><b>Diagram 5</b></p> |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | 2M/PVC         | 3                |                         |
| 10-30 VDC | 1000                 | ≤200                   | -30 to +85           | IP 68, 69K | SS      | LCP  | N/A       | YE         | 2M/PUR         | 4                | <p><b>Diagram 5</b></p> |
|           | 1000                 | ≤200                   | -30 to +85           | IP 68      | CPB     | LCP  | N/A       | YE         | 2M/PVC         | 4                |                         |

Uprox+

\* Length in meters.

For material descriptions see page M22.