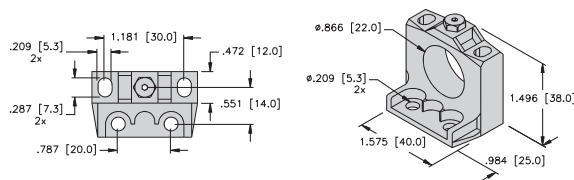


# Inductive Rectangular Sensors



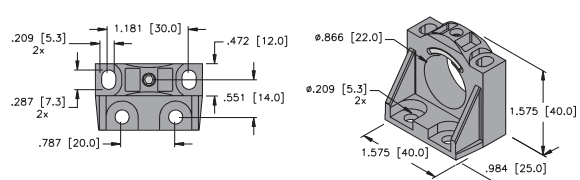
| Housing Style - Rectangular                                         | Part Number                     | ID Number | Features             | Embeddable | Sensing Range (mm) | Output          |
|---------------------------------------------------------------------|---------------------------------|-----------|----------------------|------------|--------------------|-----------------|
| <b>CK40 - Embeddable/Nonembeddable, eurofast® Connector</b><br><br> | Bi15U-CK40-AD4X-H1144           | M4280032  | <i>Uprox</i> +       | •          | 15                 | 2-Wire DC       |
|                                                                     | Ni35U-CK40-AD4X-H1144           | M4280232  | <i>Uprox</i> +       |            | 35                 |                 |
|                                                                     | Bi15-CK40-AD4X-H1141 W/BS2.1    | M4465090  |                      | •          | 15                 |                 |
|                                                                     | Ni20-CK40-AD4X-H1141 W/BS2.1    | M4465290  |                      |            | 20                 |                 |
|                                                                     | Bi15U-CK40-AN6X2-H1141 W/BS 2.1 | M1625690  | <i>Uprox</i>         | •          | 15                 | 3-Wire DC NPN   |
|                                                                     | Bi20U-CK40-AN6X2-H1141 W/BS 2.1 | M1627231  | <i>Uprox</i> +       | •          | 20                 |                 |
|                                                                     | Bi30U-CK40-AN6X2-H1141 W/BS 4   | M1625820  | <i>Uprox</i> +       | •          | 30                 |                 |
|                                                                     | Bi15-CK40-AN6X2-H1141 W/BS 2.1  | M1625190  |                      | •          | 15                 |                 |
|                                                                     | Ni20-CK40-AN6X2-H1141 W/BS 2.1  | M1625390  |                      |            | 20                 |                 |
|                                                                     | Ni25U-CK40-AN6X2-H1141 W/BS 2.1 | M1625789  | <i>Uprox</i>         |            | 25                 |                 |
|                                                                     | Ni35U-CK40-AN6X2-H1141 W/BS 4   | M1625810  | <i>Uprox</i>         |            | 35                 |                 |
|                                                                     | Ni50U-CK40-AN6X2-H1141 W/BS 4   | M1625823  | <i>Uprox</i> +       |            | 50                 |                 |
|                                                                     | Bi15U-CK40-AP6X2-H1141 W/BS 2.1 | M1625689  | <i>Uprox</i>         | •          | 15                 | 3-Wire DC PNP   |
|                                                                     | Bi20U-CK40-AP6X2-H1141 W/BS 2.1 | M1627288  | <i>Uprox</i> +       | •          | 20                 |                 |
|                                                                     | Bi30U-CK40-AP6X2-H1141 W/BS 4   | M1625829  | <i>Uprox</i> +       | •          | 30                 |                 |
|                                                                     | Bi15-CK40-AP6X2-H1141 W/BS 2.1  | M1625090  |                      | •          | 15                 |                 |
|                                                                     | Ni20-CK40-AP6X2-H1141 W/BS 2.1  | M1625290  |                      |            | 20                 |                 |
|                                                                     | Ni25U-CK40-AP6X2-H1141 W/BS 2.1 | M1625790  | <i>Uprox</i>         |            | 25                 |                 |
|                                                                     | Ni35U-CK40-AP6X2-H1141 W/BS 4   | M1625800  | <i>Uprox</i>         |            | 35                 |                 |
|                                                                     | Bi15-CK40-VN4X2-H1141 W/BS 2.1  | M1550190  | <i>Comp. Outputs</i> | •          | 15                 | 4-Wire DC NPN   |
|                                                                     | Ni20-CK40-VN4X2-H1141 W/BS 2.1  | M1550390  | <i>Comp. Outputs</i> |            | 20                 |                 |
|                                                                     | Ni50U-CK40-VN4X2-H1141 W/BS 2.1 | M1625806  | <i>Uprox</i> +       |            | 50                 |                 |
|                                                                     |                                 |           | /Comp. Outputs       |            |                    |                 |
|                                                                     | Bi15-CK40-VP4X2-H1141 W/BS 2.1  | M1550091  | <i>Comp. Outputs</i> | •          | 15                 | 4-Wire DC PNP   |
|                                                                     | Ni20-CK40-VP4X2-H1141 W/BS 2.1  | M1550290  | <i>Comp. Outputs</i> |            | 20                 |                 |
|                                                                     | Ni35U-CK40-VP6X2-H1141          | M1625815  | <i>Uprox</i>         |            | 35                 |                 |
|                                                                     | Ni50U-CK40-VP4X2-H1141 W/BS 2.1 | M1538302  | <i>Uprox</i> +       |            |                    |                 |
|                                                                     |                                 |           | <i>Comp. Outputs</i> |            |                    |                 |
|                                                                     | Bi15-CK40-Y1X-H1141             | M4065000  |                      | •          | 15                 | 2-Wire DC NAMUR |

Note: 1. BS2.1 is the standard mounting bracket for CK40 unless noted differently.



**BS 2.1 Mounting Bracket**

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



**BS 4 Mounting Bracket**



| Voltage   | Switching Freq. (Hz) | Operating Current (mA) | Operating Temp. (°C) | Protection | Housing | Front Cap/ Face | Power LED | Output LED | Mating Cord, Cable Length /Jacket | Wiring Diagram # | Wiring Diagrams      |
|-----------|----------------------|------------------------|----------------------|------------|---------|-----------------|-----------|------------|-----------------------------------|------------------|----------------------|
| 10-65 VDC | 250                  | ≤200                   | -20 to +70           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4.23T-*                        | 1                | <b>Diagram 1</b><br> |
|           | 250                  | ≤200                   | -20 to +70           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4.23T-*                        | 1                |                      |
|           | 150                  | ≤100                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4.2T-*                         | 2                |                      |
|           | 200                  | ≤100                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4.2T-*                         | 2                |                      |
| 10-30 VDC | 250                  | ≤200                   | -30 to +85           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                | <b>Diagram 2</b><br> |
|           | 250                  | ≤200                   | -20 to +70           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                |                      |
|           | 250                  | ≤200                   | -10 to +60           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                |                      |
|           | 150                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                |                      |
|           | 150                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                |                      |
|           | 250                  | ≤200                   | -30 to +85           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                |                      |
|           | 250                  | ≤200                   | -30 to +85           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                |                      |
|           | 250                  | ≤200                   | -25 to +70           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 3                |                      |
| 10-30 VDC | 250                  | ≤200                   | -30 to +85           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 4                | <b>Diagram 3</b><br> |
|           | 250                  | ≤200                   | -20 to +70           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 4                |                      |
|           | 250                  | ≤200                   | -10 to +60           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 4                |                      |
|           | 150                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 4                |                      |
|           | 150                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 4                |                      |
|           | 250                  | ≤200                   | -30 to +85           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 4                |                      |
|           | 250                  | ≤200                   | -30 to +85           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4T-*                           | 4                |                      |
| 10-65 VDC | 250                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4.4T-*                         | 5                | <b>Diagram 4</b><br> |
|           | 250                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4.4T-*                         | 5                |                      |
|           | 250                  | ≤200                   | -25 to +70           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4.4T-*                         | 5                |                      |
| 10-65 VDC | 250                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4.4T-*                         | 6                | <b>Diagram 5</b><br> |
|           | 250                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4.4T-*                         | 6                |                      |
|           | 250                  | ≤200                   | -25 to +70           | IP 67      | PBT     | PBT             | GN        | YE         | RK 4.4T-*                         | 6                |                      |
|           | 250                  | ≤200                   | -25 to +70           | IP 68      | PBT     | PBT             | GN        | YE         | RK 4.4T-*                         | 6                |                      |
| 5-30 VDC  | 150                  | Remote                 | -25 to +70           | IP 67      | PBT     | PBT             | N/A       | YE         | RK 4.21T-*                        | 7                | <b>Diagram 6</b><br> |
|           |                      |                        |                      |            |         |                 |           |            |                                   |                  | <b>Diagram 7</b><br> |