

| Size        |        |                           | Sensing distance | Connecting method<br>(See note 1.) | Body length | Output configuration | Operation mode NO    | Operation mode NC    |
|-------------|--------|---------------------------|------------------|------------------------------------|-------------|----------------------|----------------------|----------------------|
| M18 (Brass) | Single | Shielded                  | 5 mm             | Pre-wired                          | Short       | PNP                  | E2B-M18KS05-WP-B1 2M | E2B-M18KS05-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KS05-WP-C1 2M | E2B-M18KS05-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18LS05-WP-B1 2M | E2B-M18LS05-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18LS05-WP-C1 2M | E2B-M18LS05-WP-C2 2M |
|             |        | Unshielded                | 10 mm            | Pre-wired                          | Short       | PNP                  | E2B-M18KS05-M1-B1    | E2B-M18KS05-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KS05-M1-C1    | E2B-M18KS05-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18LS05-M1-B1    | E2B-M18LS05-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18LS05-M1-C1    | E2B-M18LS05-M1-C2    |
|             | Double | Shielded<br>(See note 2.) | 8 mm             | Pre-wired                          | Short       | PNP                  | E2B-M18KN10-WP-B1 2M | E2B-M18KN10-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KN10-WP-C1 2M | E2B-M18KN10-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18LN10-WP-B1 2M | E2B-M18LN10-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18LN10-WP-C1 2M | E2B-M18LN10-WP-C2 2M |
|             |        | Unshielded                | 16 mm            | Pre-wired                          | Short       | PNP                  | E2B-M18KN10-M1-B1    | E2B-M18KN10-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KN10-M1-C1    | E2B-M18KN10-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18KS08-WP-B1 2M | E2B-M18KS08-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KS08-WP-C1 2M | E2B-M18KS08-WP-C2 2M |
|             |        | Unshielded                | 16 mm            | Pre-wired                          | Short       | PNP                  | E2B-M18LS08-WP-B1 2M | E2B-M18LS08-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18LS08-WP-C1 2M | E2B-M18LS08-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18KS08-M1-B1    | E2B-M18KS08-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KS08-M1-C1    | E2B-M18KS08-M1-C2    |
|             |        | Unshielded                | 16 mm            | Pre-wired                          | Short       | PNP                  | E2B-M18LS08-M1-B1    | E2B-M18LS08-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18LS08-M1-C1    | E2B-M18LS08-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18KN16-WP-B1 2M | E2B-M18KN16-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KN16-WP-C1 2M | E2B-M18KN16-WP-C2 2M |
|             |        | Unshielded                | 16 mm            | Pre-wired                          | Short       | PNP                  | E2B-M18KN16-WP-B1 2M | E2B-M18KN16-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KN16-WP-C1 2M | E2B-M18KN16-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18LN16-WP-B1 2M | E2B-M18LN16-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18LN16-WP-C1 2M | E2B-M18LN16-WP-C2 2M |
|             |        | Unshielded                | 16 mm            | Pre-wired                          | Short       | PNP                  | E2B-M18KN16-M1-B1    | E2B-M18KN16-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KN16-M1-C1    | E2B-M18KN16-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M18KS10-WP-B1 2M | E2B-M18KS10-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M18KS10-WP-C1 2M | E2B-M18KS10-WP-C2 2M |

Note: 1. Pre-wired Models are available in the cable lengths of 2 m and 5 m.

2. There are restrictions that apply to Shielded sensors.

Please refer to "Effects of Surrounding Metal" on page 20.

| Size        |        |                           | Sensing distance | Connecting method<br>(See note 1.) | Body length | Output configuration | Operation mode NO    | Operation mode NC    |
|-------------|--------|---------------------------|------------------|------------------------------------|-------------|----------------------|----------------------|----------------------|
| M30 (Brass) | Single | Shielded                  | 10 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30KS10-WP-B1 2M | E2B-M30KS10-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KS10-WP-C1 2M | E2B-M30KS10-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30LS10-WP-B1 2M | E2B-M30LS10-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30LS10-WP-C1 2M | E2B-M30LS10-WP-C2 2M |
|             |        | Unshielded                | 20 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30KS10-M1-B1    | E2B-M30KS10-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KS10-M1-C1    | E2B-M30KS10-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30LS10-M1-B1    | E2B-M30LS10-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30LS10-M1-C1    | E2B-M30LS10-M1-C2    |
|             | Double | Shielded<br>(See note 2.) | 15 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30KN20-WP-B1 2M | E2B-M30KN20-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KN20-WP-C1 2M | E2B-M30KN20-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30LN20-WP-B1 2M | E2B-M30LN20-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30LN20-WP-C1 2M | E2B-M30LN20-WP-C2 2M |
|             |        | Unshielded                | 30 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30KN20-M1-B1    | E2B-M30KN20-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KN20-M1-C1    | E2B-M30KN20-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30LN20-M1-B1    | E2B-M30LN20-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30LN20-M1-C1    | E2B-M30LN20-M1-C2    |
|             |        | Unshielded                | 30 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30KS15-WP-B1 2M | E2B-M30KS15-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KS15-WP-C1 2M | E2B-M30KS15-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30LS15-WP-B1 2M | E2B-M30LS15-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30LS15-WP-C1 2M | E2B-M30LS15-WP-C2 2M |
|             |        | Unshielded                | 30 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30KS15-M1-B1    | E2B-M30KS15-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KS15-M1-C1    | E2B-M30KS15-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30LS15-M1-B1    | E2B-M30LS15-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30LS15-M1-C1    | E2B-M30LS15-M1-C2    |
|             |        | Unshielded                | 30 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30LN30-WP-B1 2M | E2B-M30LN30-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30LN30-WP-C1 2M | E2B-M30LN30-WP-C2 2M |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30KN16-WP-B1 2M | E2B-M30KN16-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KN16-WP-C1 2M | E2B-M30KN16-WP-C2 2M |
|             |        | Unshielded                | 30 mm            | Pre-wired                          | Short       | PNP                  | E2B-M30KN16-M1-B1    | E2B-M30KN16-M1-B2    |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KN16-M1-C1    | E2B-M30KN16-M1-C2    |
|             |        |                           |                  | M12 Connector                      | Short       | PNP                  | E2B-M30KS15-WP-B1 2M | E2B-M30KS15-WP-B2 2M |
|             |        |                           |                  |                                    | Long        | NPN                  | E2B-M30KS15-WP-C1 2M | E2B-M30KS15-WP-C2 2M |

Note: 1. Pre-wired Models are available in the cable lengths of 2 m and 5 m.

2. There are restrictions that apply to Shielded sensors.

Please refer to "Effects of Surrounding Metal" on page 20.

## Accessories (Order Separately)

## Sensor I/O Connectors

| Size        | Cable     | Shape       | Cores | Cable length (m) | Model           |
|-------------|-----------|-------------|-------|------------------|-----------------|
| M8 (3-pin)  | PVC       | Straight    | 3     | 2                | XS3F-M8PVC3S2M  |
|             |           |             |       | 5                | XS3F-M8PVC3S5M  |
|             |           | Right-angle |       | 2                | XS3F-M8PVC3A2M  |
|             |           |             |       | 5                | XS3F-M8PVC3A5M  |
|             | PVC Robot | Straight    |       | 2                | XS3F-M321-302-R |
|             |           |             |       | 5                | XS3F-M321-305-R |
|             |           | Right-angle |       | 2                | XS3F-M322-302-R |
|             |           |             |       | 5                | XS3F-M322-305-R |
| M12 (4-pin) | PVC       | Straight    | 4     | 2                | XS2F-M12PVC4S2M |
|             |           |             |       | 5                | XS2F-M12PVC4S5M |
|             |           | Right-angle |       | 2                | XS2F-M12PVC4A2M |
|             |           |             |       | 5                | XS2F-M12PVC4A5M |
|             | PVC Robot | Straight    |       | 2                | XS2F-D421-D80-F |
|             |           |             |       | 5                | XS2F-D421-G80-F |
|             |           | Right-angle |       | 2                | XS2F-D422-D80-F |
|             |           |             |       | 5                | XS2F-D422-G80-F |