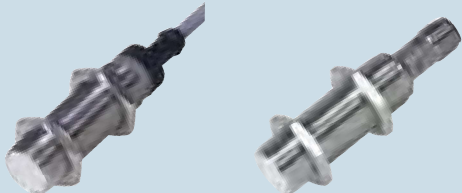


# Inductive proximity sensors, 3-wire, DC

| Types                                                                  | M18 Standard - Short body                                                           |                     | M18 Standard - Long body                                                            |                     |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|---------------------|
| Connections                                                            | 2 m cable                                                                           | M12 connector       | 2 m cable                                                                           | M12 connector       |
| Flush mountable                                                        |    |                     |  |                     |
|                                                                        | Dimensions (mm)                                                                     | M18 x 41.6          | M18 x 55                                                                            | M18 x 61.6          |
|                                                                        | Thread (mm)                                                                         | M18 x 1 x 30        | M18 x 1 x 30                                                                        | M18 x 1 x 50        |
|                                                                        | Operating frequency                                                                 | 1.5 kHz             | 1.5 kHz                                                                             | 1.5 kHz             |
|                                                                        | Sensing distance (Sn)                                                               | 5 mm                | 5 mm                                                                                | 5 mm                |
| References                                                             |                                                                                     |                     |                                                                                     |                     |
| NPN-NO                                                                 | IA18DSF05NO                                                                         | IA18ASF05NOM1       |                                                                                     |                     |
| PNP-NO                                                                 | IA18DSF05PO                                                                         | IA18ASF05POM1       | IA18DLF05PO                                                                         | IA18ALF05POM1       |
| NPN-NC                                                                 | IA18DSF05NC                                                                         | IA18ASF05NCM1       |                                                                                     |                     |
| PNP-NC                                                                 | IA18DSF05PC                                                                         | IA18ASF05PCM1       | IA18DLF05PC                                                                         | IA18ALF05PCM1       |
| Non-flush mountable                                                    |  |                     |  |                     |
|                                                                        | Dimensions (mm)                                                                     | M18 x 49.6          | M18 x 63                                                                            |                     |
|                                                                        | Thread (mm)                                                                         | M18 x 1 x 30        | M18 x 1 x 30                                                                        |                     |
|                                                                        | Operating frequency                                                                 | 1.5 kHz             | 1.5 kHz                                                                             |                     |
|                                                                        | Sensing distance (Sn)                                                               | 8 mm                | 8 mm                                                                                |                     |
| References                                                             |                                                                                     |                     |                                                                                     |                     |
| NPN-NO                                                                 | IA18DSN08NO                                                                         | IA18ASN08NOM1       |                                                                                     |                     |
| PNP-NO                                                                 | IA18DSN08PO                                                                         | IA18ASN08POM1       |                                                                                     |                     |
| NPN-NC                                                                 | IA18DSN08NC                                                                         | IA18ASN08NCM1       |                                                                                     |                     |
| PNP-NC                                                                 | IA18DSN08PC                                                                         | IA18ASN08PCM1       |                                                                                     |                     |
| Characteristics flush and non-flush mountable                          |                                                                                     |                     |                                                                                     |                     |
| Rated operating voltage                                                | 10 - 40 VDC                                                                         | 10 - 40 VDC         | 10 - 40 VDC                                                                         | 10 - 40 VDC         |
| Voltage drop                                                           | ≤ 2.5 VDC                                                                           | ≤ 2.5 VDC           | ≤ 2.5 VDC                                                                           | ≤ 2.5 VDC           |
| Degree of protection                                                   | IP 67                                                                               | IP 67               | IP 67                                                                               | IP 67               |
| Protection Short-circuit (S)<br>Reverse polarity (P)<br>Transients (T) | SPT                                                                                 | SPT                 | SPT                                                                                 | SPT                 |
| Output current                                                         | < 200 mA @ 50°C                                                                     | < 200 mA @ 50°C     | < 200 mA @ 50°C                                                                     | < 200 mA @ 50°C     |
| Housing material                                                       | Nickel-plated brass + plastic                                                       | Nickel-plated brass | Nickel-plated brass + plastic                                                       | Nickel-plated brass |
| Operating temperature                                                  | -25°C to +70°C                                                                      | -25°C to +70°C      | -25°C to +70°C                                                                      | -25°C to +70°C      |
| LED colour                                                             | Yellow                                                                              | Yellow              | Yellow                                                                              | Yellow              |
| Approvals / Marks                                                      | CE - UL - CSA                                                                       | CE - UL - CSA       | CE - UL - CSA                                                                       | CE - UL - CSA       |