

## CS SERIES

The **CS** series offers high-quality connectors, developed to guarantee maximum reliability with particularly compact dimensions in the standard M8x1 and M12x1 formats, can be used to connect photoelectric sensors as well as inductive or capacitive proximity sensors. The M8 and M12 connectors offer either an axial or radial shape; wired with a 4-pole normalised configuration, with 3, 5, 7 or 10 metre cable.

Moreover, the M12 connectors are available in other versions with a 3-pole normalised configuration for a normally open output, or with a yellow PNP output LED and a green power LED.

The connector body is in PUR plastic and the cable in PVC with CEI 20-22 flammability class.

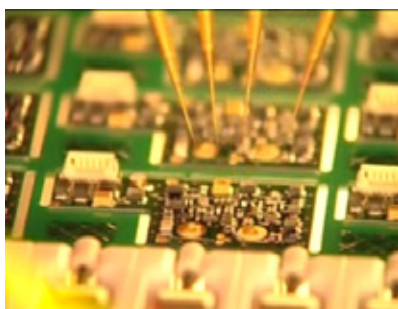


## HIGHLIGHTS

- M8 and M12, axial or radial connectors
- Pre-cabled with cable of various standard lengths
- Configuration normalised to 4-poles and NO 3-poles
- Versions with LED for power and output signalling

## APPLICATIONS

## Electronics



## Automatic warehouse



## Packaging lines



## Beverage &amp; Bottling



## TECHNICAL DATA

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| <b>Conductor diameter</b>      | 42 x 0.10 mm - 0.35 mm≈ (M12 3-pole)                           |
|                                | 32 x 0.10 mm - 0.25 mm≈ (M12 4-pole)                           |
|                                | 32 x 0.10 mm - 0.25 mm≈ (M8 4-pole)                            |
| <b>Conductor colour</b>        | refer to table 1 and 2                                         |
| <b>Cable diameter</b>          | 5 mm                                                           |
| <b>Cable length</b>            | 3, 5, 7, 10 m                                                  |
| <b>Cable colour</b>            | grey RAL 7035                                                  |
| <b>Cable material</b>          | PVC                                                            |
| <b>Conductor material</b>      | annealed non-tinned electrolytic copper, with high flexibility |
| <b>Connector material</b>      | housing in PVC, insulation in Nylon 6 30% glass                |
| <b>Contact material</b>        | 0.3 mm gold-nickel-plated brass                                |
| <b>Connector configuration</b> | refer to table 1 and 2                                         |
| <b>Mechanical protection</b>   | IP67, with locked ring                                         |
| <b>Flammability class</b>      | CEI 20-22, IEC 332/3                                           |
|                                | flame-retardant and non-propagate                              |
| <b>Rated voltage</b>           | 300 Vdc / 250 Vac                                              |
|                                | 10-30 Vdc with LED                                             |
| <b>Maximum current</b>         | 4 A                                                            |
| <b>Test voltage</b>            | 1 kV                                                           |
| <b>Operating temperature</b>   | -25 ... +80°C                                                  |
| <b>Reference standard</b>      | EN 50044, EN 60947-5-2                                         |
| <b>Certifications</b>          | CE                                                             |

## TABLES

| TERMINAL | COLOUR | FUNCTION     |
|----------|--------|--------------|
| 1        | brown  | positive (+) |
| 3        | blue   | negative (-) |
| 4        | black  | NO output    |

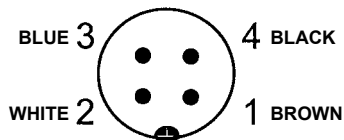
Tabel 1: NO 3-POLE CONN. CONFIGURATION

| TERMINAL | COLOUR | FUNCTION     |
|----------|--------|--------------|
| 1        | brown  | positive (+) |
| 2        | white  | NC output    |
| 3        | blue   | negative (-) |
| 4        | black  | NO output    |

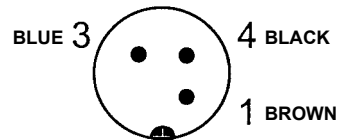
Tabel 2: NO-NC 4-POLE CONN. CONFIGURATION

## CONNECTIONS

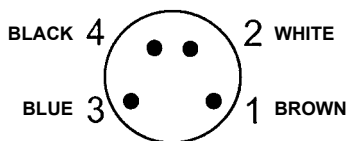
### M12 4-POLE CONNECTOR



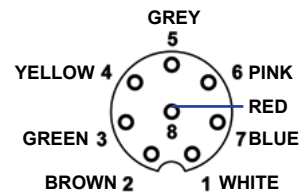
### M12 3-POLE CONNECTOR



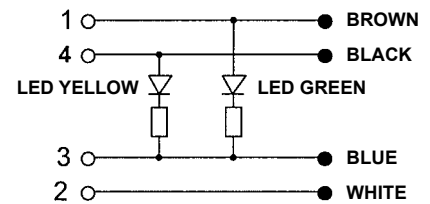
### M8 4-POLE CONNECTOR



### M12 8-POLE CONNECTOR

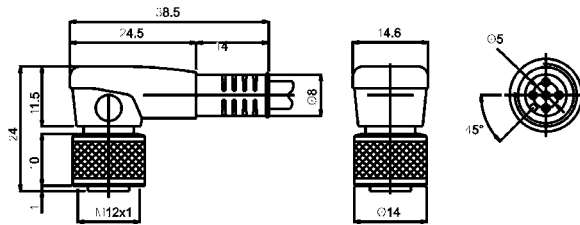


### LED CONFIGURATION

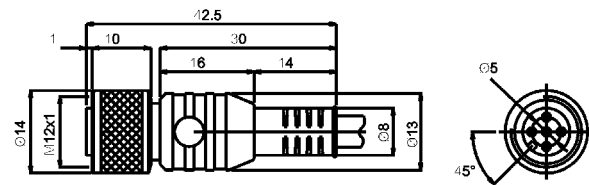


## DIMENSIONS

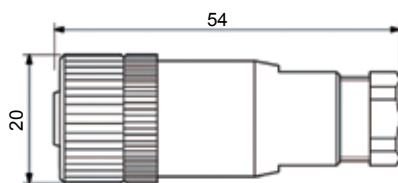
**RADIAL M12 CONNECTOR**



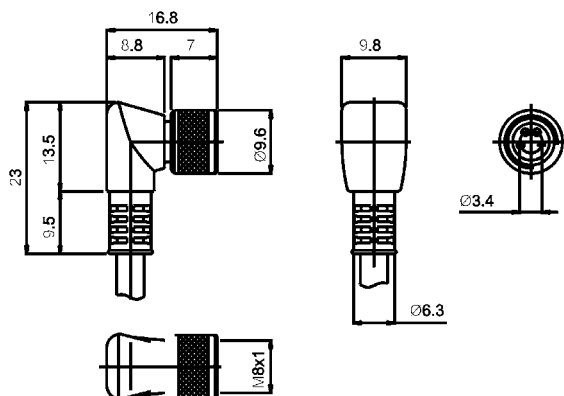
**AXIAL M12 CONNECTOR**



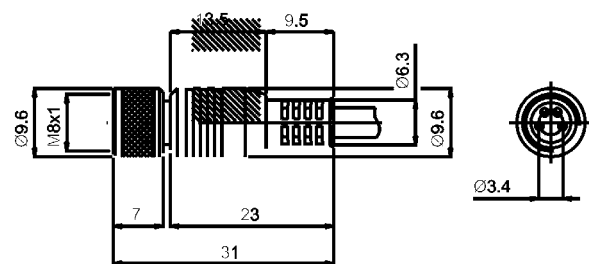
**AXIAL M12 8-POLE FEMALE CONNECTOR**  
accepts conductors with  
0.25 ... 0.75mm<sup>2</sup> sections



**RADIAL M8 CONNECTOR**



**AXIAL M8 CONNECTOR**



mm

## MODEL SELECTION AND ORDER INFORMATION

| MODEL         | CONNECTOR   | CONFIGURATION | CABLE LENGTH | CODE N°   |
|---------------|-------------|---------------|--------------|-----------|
| CS-A1-01-G-03 | axial M12   | NO 3-poles    | 3 m          | 95A251290 |
| CS-A1-01-G-05 | axial M12   | NO 3-poles    | 5 m          | 95A251300 |
| CS-A1-01-G-07 | axial M12   | NO 3-poles    | 7 m          | 95A251320 |
| CS-A1-01-G-10 | axial M12   | NO 3-poles    | 10 m         | 95A251340 |
| CS-A1-02-G-03 | axial M12   | NO-NC 4-poles | 3 m          | 95A251380 |
| CS-A1-02-G-05 | axial M12   | NO-NC 4-poles | 5 m          | 95A251270 |
| CS-A1-02-G-07 | axial M12   | NO-NC 4-poles | 7 m          | 95A251280 |
| CS-A1-02-G-10 | axial M12   | NO-NC 4-poles | 10 m         | 95A251390 |
| CS-A1-03-G-03 | axial M12   | NO-NC 5-poles | 3 m          | 95ACC2110 |
| CS-A1-03-G-05 | axial M12   | NO-NC 5-poles | 5 m          | 95ACC2120 |
| CS-A1-03-G-10 | axial M12   | NO-NC 5-poles | 10 m         | 95ACC2140 |
| CS-A1-06-B-03 | axial M12   | 8-poles       | 3 m          | 95ACC2230 |
| CS-A1-06-B-05 | axial M12   | 8-poles       | 5 m          | 95ACC2240 |
| CS-A1-06-B-10 | axial M12   | 8-poles       | 10 m         | 95ACC2250 |
| CS-A1-06-B-NC | axial M12   | 8-poles       | -            | 95ACC2550 |
| CS-A2-01-G-03 | radial M12  | NO 3-poles    | 3 m          | 95A251200 |
| CS-A2-01-G-05 | radial M12  | NO 3-poles    | 5 m          | 95A251210 |
| CS-A2-01-G-07 | radial M12  | NO 3-poles    | 7 m          | 95A251220 |
| CS-A2-01-G-10 | radial M12  | NO 3-poles    | 10 m         | 95A251230 |
| CS-A2-02-G-03 | radial M12  | NO-NC 4-poles | 3 m          | 95A251360 |
| CS-A2-02-G-05 | radial M12  | NO-NC 4-poles | 5 m          | 95A251240 |
| CS-A2-02-G-07 | radial M12  | NO-NC 4-poles | 7 m          | 95A251245 |
| CS-A2-02-G-10 | radial M12  | NO-NC 4-poles | 10 m         | 95A251260 |
| CS-A2-11-G-05 | radial M12* | NO 3-poles    | 5 m          | 95A251310 |
| CS-A2-11-G-10 | radial M12* | NO 3-poles    | 10 m         | 95A251330 |
| CS-A2-12-G-03 | radial M12* | NO-NC 4-poles | 3 m          | 95A251400 |
| CS-A2-12-G-05 | radial M12* | NO-NC 4-poles | 5 m          | 95A251350 |
| CS-A2-12-G-10 | radial M12* | NO-NC 4-poles | 10 m         | 95A251370 |
| CS-B1-01-G-03 | axial M8    | NA 3-poles    | 3 m          | 95A251490 |
| CS-B1-01-G-05 | axial M8    | NA 3-poles    | 5 m          | 95A251510 |
| CS-B2-01-G-03 | radial M8   | NA 3-poles    | 3 m          | 95A251500 |
| CS-B2-01-G-05 | radial M8   | NA 3-poles    | 5 m          | 95A251520 |
| CS-B1-02-G-03 | axial M8    | NO-NC 4-poles | 3 m          | 95A251420 |
| CS-B1-02-G-05 | axial M8    | NO-NC 4-poles | 5 m          | 95A251430 |
| CS-B1-02-G-07 | axial M8    | NO-NC 4-poles | 7 m          | 95A251440 |
| CS-B1-02-G-10 | axial M8    | NO-NC 4-poles | 10 m         | 95A251480 |
| CS-B2-02-G-03 | radial M8   | NO-NC 4-poles | 3 m          | 95A251450 |
| CS-B2-02-G-05 | radial M8   | NO-NC 4-poles | 5 m          | 95A251460 |
| CS-B2-02-G-07 | radial M8   | NO-NC 4-poles | 7 m          | 95A251470 |
| CS-B2-02-G-10 | radial M8   | NO-NC 4-poles | 10 m         | 95A251530 |

Note: sul connettore è presente un LED giallo di segnalazione per l'uscita PNP ed un LED verde per l'alimentazione.

## NON-CABLED CONNECTORS

| MODELLO       | DESCRIZIONE                        | N° ORDINE |
|---------------|------------------------------------|-----------|
| CS-A1-02-B-NC | M12 4-pole axial female connector  | G5085002  |
| CS-A2-02-B-NC | M12 4-pole radial female connector | G5085003  |



The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.