



Euro QD
Straight connector
models listed

- 12-Pin**
- P4C06**
2 m (6.5')
 - P4C13**
4 m (13')
 - P4C23**
7 m (23')
 - P4C32**
10 m (32')
 - P4C50**
15 m (50')
 - P4C75**
23 m (75')
 - P4C110**
34 m (110')

Used for: Power (P4)



Euro QD
Straight connector
models listed; for
right-angle, add **RA**
at the end of the model
number
(ex, **MQDC2S-1206RA**)

- 12-Pin**
- MQDC2S-1206**
2 m (6.5')
 - MQDC2S-1215**
5 m (15')
 - MQDC2S-1230**
9 m (30')
 - MQDC2S-1250**
15 m (50')
 - MQDC2S-1275**
23 m (75')

Used for: Power (Sealed P4)

BNC to BNC

- BNC06**
2 m (6.5')
- BNC15**
5 m (16')
- BNC30**
9 m (30')
- BNC48**
15 m (49')

Used for: Video (P4)

QD to BNC

- PKG4M-2/CS**
2 m (6.5')
- PKG4M-5/CS**
5 m (16')
- PKG4M-9/CS**
9 m (30')

Used for: Video (Sealed P4)

RJ45 to RJ45

- | | |
|--|---|
| <p>Shielded</p> <ul style="list-style-type: none"> STP07 2 m (6.5') STP25 7 m (23') STP50 15 m (50') STP75 23 m (75') | <p>Shielded Crossover</p> <ul style="list-style-type: none"> STPX7 2 m (6.5') STPX25 7 m (23') STPX50 15 m (50') STPX75 23 m (75') |
|--|---|

Used for: Ethernet Communication (P4)

RJ45 to 8-pin Euro QD—Sealed
Straight connector models
listed; for right-angle, add
RA at the end of the model
number (example,
STP-MAQDC-806RA)

- STP-MAQDC-806**
2 m (6.5')
- STP-MAQDC-815**
5 m (15')
- STP-MAQDC-830**
9 m (30')

Used for: Ethernet Communication (Sealed P4)

Additional cordset information is available.
See page 758



IP68-Rated Right-Angle Models
(shown with cover and lens—sold separately)




Right-Angle Sensor Models
(shown with lens—sold separately)



In-line Sensor Models
(shown with lens—sold separately)

PresencePLUS® P4 OMNI Specifications

| | |
|-------------------------------|--|
| Supply Voltage and Current | 10 to 30 V dc (24 V dc ±10% if the sensor powers a light source) P4OR, P4OI & P4ORS: less than 650 mA (exclusive of lights and I/O load) P4O1.3R, P4O1.3I, P4COR, P4COI, P4CORS & P4O1.3RS: less than 550 mA (exclusive of lights and I/O load) |
| Memory | 32 MB or 64 mb Inspection (jobs): 999 max. |
| Input/Output Configuration | NPN (sinking) or PNP (sourcing) software selectable |
| Output Rating | 150 mA max. each output OFF-state leakage current: less than 100 µA ON-state saturation voltage: NPN—less than 1 V @ 150 mA max. PNP—greater than V+ -2 V |
| Bicolor Status Indicators | PASS/FAIL: Green ON steady—PASS POWER/ERROR: Green ON steady—POWER READY/TRIGGER: Green ON steady—READY Red ON steady—FAIL Red ON steady—ERROR Yellow ON steady—TRIGGER |
| Display Options | PC or NTSC video (uses 9 m max. BNC cordset) |
| Discrete I/O | 1 Trigger IN 1 Strobe OUT 4 Programmable I/O 1 Product Change IN 1 Remote TEACH IN |
| Communications | 10/100 Ethernet connection for running PresencePLUS P4 software and/or output inspection results P4OR, P4OI, P4O1.3R, P4O1.3I, P4COR & P4COI: RJ-45 connector P4ORS, P4O1.3RS & P4CORS: 8-pin M12/Euro-style (female) connector RS-232 connection for output of inspection results |
| Imager Resolution | P4OR, P4OI & P4ORS: 640 x 480 pixels P4O1.3R, P4O1.3I & P4O1.3RS: 1280 x 1024 pixels P4COR, P4COI & P4CORS: 752 x 480 pixels |
| Pixel Size | P4OR, P4OI, P4COR, P4COI & P4ORS: 7.4 x 7.4 µm P4O1.3R, P4O1.3I & P4O1.3RS: 6.7 x 6.7 µm P4CORS: 6.0 X 6.0 µm |
| Imager Size | P4OR, P4OI & P4ORS: 4.8 x 3.6 mm, 5.9 mm diagonal (1/3 inch CCD) P4O1.3R, P4O1.3I & P4O1.3RS: 8.6 x 6.9 mm, 11 mm diagonal (2/3 inch CMOS) P4COR, P4COI & P4CORS: 4.5 x 2.9 mm, 5.4 mm diagonal (1/3 inch CMOS) |
| Levels of Gray Scale or Color | P4OR, P4OI, P4O1.3R, P4O1.3I, P4ORS & P4O1.3RS: 256 Gray Scale P4COR, P4COI & P4CORS: 256 Red, Green and Blue |
| Exposure Time | P4OR, P4OI & P4ORS: 0.1 to 2830 milliseconds P4O1.3R, P4O1.3I & P4O1.3RS: 0.1 to 1670 milliseconds P4COR, P4COI & P4CORS: 0.1 to 1000 milliseconds |
| Full Image Acquisition | P4OR, P4OI & P4ORS: 48 frames per second max.* P4O1.3R, P4O1.3I & P4O1.3RS: 26.8 frames per second max.* P4COR, P4COI & P4CORS: 17 frames per second max.* |
| Lens Mount | Standard C-mount (1 inch—32 UN) |
| Construction | P4OR, P4OI, P4O1.3R, P4O1.3I, P4COR & P4COI: Black anodized aluminum housing, glass lens P4ORS, P4O1.3RS & P4CORS: Die-cast nickel-plated aluminum housing, glass or acrylic window |
| Weight | P4OI, P4O1.3I & P4COI: 293 g P4OR, P4O1.3R & P4COR: 385 g P4ORS, P4O1.3RS & P4CORS: 430 g |
| Environmental Rating | P4OR, P4OI, P4O1.3R, P4O1.3I, P4COR & P4COI: IEC IP20; NEMA 1 P4ORS, P4O1.3RS & P4CORS: IEC IP68 |
| Operating Conditions | Stable ambient temperature: 0 to +50 °C Stable ambient lighting: No large, quick changes in light level; no direct or reflected sunlight Relative humidity: P4OR, P4OI, P4O1.3R, P4O1.3I, P4COR & P4COI: 35-90% (non-condensing) |
| Tools | Color Only: Average Color, Color Blob, Color Match Standard: Average Grayscale, Blob Detect, Edge, GEO Count, Object, Pattern Count, Circle Detect, Line Detect, GEO Find, Locate, Pattern Find, Blob Find, Communication, Math, Measure, Test, String Premium: Bar Code, Bead Tool, OCR/OCV |
| Certifications |  |

* A reduced Field-of-View (FOV) dramatically increases acquisition rates.