

## INDUSTRIAL COMPONENT DATA

# E3S-DCP21-IL2 E3S 7113E E3SDCP21IL2OMS OMRON Sensor Brands Color Reflex Rectangular IP67 10+/- 3mm NPN/PNP I..

Brand: OMRON | Manufacturer Part Number: E3S-DCP21-IL2



|                 |                 |
|-----------------|-----------------|
| Manufacturer    | OMRON           |
| MPN / Reference | E3S-DCP21-IL2   |
| Catalog number  | E3SDCP21IL2OMS  |
| Category        | Contrast sensor |
| Minimum order   | 1 Pcs           |
| Document ID     | EO-36E9A20D55   |
| Generated       | 2026-08-02      |

## Product Overview

Sensor Brands Color Reflex Rectangular IP67 10+/- 3mm NPN/PNP IO Link V1.1 COM2 Connector M12  
Colour-mark sensor, diffuse, rectangular shape, IP67 , 10 +/- 3mm, 50µs response time, Push-Pull, IO-Link V1.1 communication COM2 (38.4kbps), M12 conn

## STRUCTURED PRODUCT DATA

## Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

## Classification & Catalog Path

Catalog path OMRON &gt; Photoelectric sensors &gt; E3S-D

## Additional Product Information

FeaturesHigh-performance color mark sensor  
E3S-DC provides reliable color mark detection for standard as well as challenging applications, especially registration marks in packaging.  
Capability to distinguish slight color differences  
Fast response time of 50 us  
Bank switching up to 9 memories  
RGB data transmission function  
Easy configuration by teach button or IO-link  
IO-link V1.1 communication and functionalities  
Ordering information  
Sensing method  
Appearance  
Connection method

Sensing distance

Output

Baud rate1

Order code

Diffuse-reflective

(mark detection)

M12 connector

10±3 mm

Push-pull

COM2

E3S-DCP21-IL2

COM3

E3S-DCP21-IL3

NPN

-

E3S-DCN21

Specifications

Item

Sensing method

Diffuse-reflective (mark detection)

Output

Push-pull

NPN

Model

E3S-DCP21-IL2

E3S-DCP21-IL3

E3S-DCN21

Sensing distance

10±3 mm (White paper 10 ×10 mm)

Spot size (reference value)

1 × 4 mm

Light source (wavelength)

Red LED (635 nm), Green LED (525 nm), Blue LED (465 nm)

Power supply voltage

10 to 30 VDC±10% (Ripple (p-p) 10% max.)

Protection circuits

Power supply reverse polarity protection, output short-circuit protection and output incorrect connection protection

Response time

Operate or reset: 50 µs max. for each (2-point teaching mode)

Operate or reset: 150 µs max. for each (1-point teaching mode)

Ambient temperature range

Operating: -10 to 55°C; Storage: -25 to 70°C (with no icing or condensation)

Degree of protection

IEC 60529 IP67

Materials

Case

Diecast zinc (nickel-plated brass)

Lens

Methacrylic....

**REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW**

Send OMRON / E3S-DCP21-IL2 with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

**GLOBAL OFFICES**

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