

INDUSTRIAL COMPONENT DATA

E3S-DCP21-IL3 E3S 7114C E3SDCP21IL3OMS OMRON Sensor Brands Color Reflex Rectangular IP67 10+/- 3mm NPN/PNP I..

Brand: OMRON | Manufacturer Part Number: E3S-DCP21-IL3



Manufacturer	OMRON
MPN / Reference	E3S-DCP21-IL3
Catalog number	E3SDCP21IL3OMS
Category	Contrast sensor
Minimum order	1 Pcs
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Product Overview

Sensor Brands Color Reflex Rectangular IP67 10+/- 3mm NPN/PNP IO Link V1.1 COM3 Connector M12
Colour-mark sensor, diffuse, rectangular shape, IP67 , 10 +/- 3mm, 50µs response time, PNP, IO-Link COM3, M12 connector

STRUCTURED PRODUCT DATA

Technical Specifications

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

Classification & Catalog Path

Catalog path OMRON > Photoelectric sensors > 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-IL3 with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

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