

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and rounded, with a consistent blue color throughout. The logo is centered horizontally within a light yellow rectangular background.

**Automatización Eléctrica**  
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### E3X-DAC-S high functionality mark detection sensor

The E3X-DAC-S provides reliable mark detection for standard as well as challenging applications. The separate sensing head setup allows the easy adaption to the mounting requirements even when space is crucial. The remote amplifier provides easy teaching for standard applications but also on demand full control over the detection performance for most challenging applications.

## Ordering information

### Pre-wired

Item	Functions	Order code (for pre-wired types with 2 m cable length)	
		NPN output	PNP output
Standard models	Timer, response speed change	E3X-DAC11-S	E3X-DAC41-S
Advanced models	Same as standard models + simultaneous determination (2 colors) AND/OR output, remote setting	E3X-DAC21-S	E3X-DAC51-S

### Connector versions




Item	Functions	Order code	
		NPN output	PNP output
Standard models (fiber amplifier connector)*1	Timer, response speed change	E3X-DAC6-S	E3X-DAC8-S

\*1 Order connector separately



## Specifications

Item	Standard models		Advanced models
	E3X-DAC1, E3X-DAC4 E3X-DAC6, E3X-DAC8		E3X-DAC2, E3X-DAC5
Light source (wave length)	White LED (420 to 700 nm)		
Number of registered marks	1	2 (simultaneous determination)	
Power supply voltage	12 to 24 VDC±10%, ripple (p-p) 10% max.		
Protective circuits	Power supply reverse polarity protection, output short circuit protection, output reverse polarity protection, mutual interference prevention		
Ambient temperature	Operating	-25 to 55°C	
	Storage	-30 to 70°C (with no icing or condensation)	
Response time	Super-high-speed mode	Operation or reset: 60 µs	Operation or reset: 120 µs
	Standard mode	Operation or reset: 1 ms	Operation or reset: 2 ms
Sensitivity setting	Teaching (one-point teaching or teaching with/without workpiece) or manual adjustment		
Functions	Detection mode	Automode (automatic selection of C-mode or I-mode) C-mode (RGB ratio) I-mode (light intensity) Mark mode (Intensity and ratio of RGB values)	
	Operating mode	ON for match (ON for same color as registered color) or ON for mismatch (ON for different color from registered color)	
	Timer function	Timer type: OFF delay, ON delay, or one-short Timer time: 1 ms to 5 s (variable)	
	Control outputs	-	Output for each channel, AND output, and OR output
	Remote control	-	One-point teaching, teaching with/without workpiece, zero reset, and light emission OFF
Degree of protection	IEC60529 IP50 (with protective cover attached)		

## Recommended fiber heads

Sensor type	Size	Recommended operating distance (mm)	Comment	Order code
	M6	5	Standard mark detection	E32-CC200 2M
	29x25.5x11.2 mm	40 to 50	Long distance – plastic	E32-L15 2M
	23x20x9 mm	25 to 30	Long distance – metal	E32-A09 2M
	M3	10	High precision mark detection (dia 1mm spot)	E32-EC31 2M + E39-EF51

Fiber amplifier connectors

Shape	Type	Comment	Order code
	Fiber amplifier connector	2 m PVC cable	E3X-CN21
		30 cm PVC cable with M12 plug connector (4 pin)	E3X-CN21-M1J 0.3M
		30 cm PVC cable with M8 plug connector (4 pin)	E3X-CN21-M3J-2 0.3M



Easy to operate detection of challenging or colored registration marks.



Detection of challenging registration marks e.g. with texts or graphics.

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<b>Product</b>	<b>Code</b>	<b>Reference</b>	<b>Product link</b>
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Photoelectric Sensor, Reflex Long distance square head	172351	E32-A09 2M	<a href="#">Buy on EAN</a>
Photoelectric sensor, SLR coaxial Threaded M6	182805	E32-CC200 2M	<a href="#">Buy on EAN</a>
Photoelectric sensor, Connection for E3X-DA. 30 cm cable + connector M8	238254	E3X-CN21-M3J-2 0.3M	<a href="#">Buy on EAN</a>
Photoelectric sensor, Cable connection 4h Master E3X-DA-N	336332	E3X-CN21	<a href="#">Buy on EAN</a>
Photoelectric sensor, detection marks 3h cc PNP Teach Connection M / E	323872	E3X-DAC8-S	<a href="#">Buy on EAN</a>
Photoelectric sensor, master E3X-DA connection. 30cm cable + M12	336337	E3X-CN21-M1J 0.3M	<a href="#">Buy on EAN</a>
Photoelectric Sensor, Reflex 50mm long distance focal point	392260	E32-L15 2M	<a href="#">Buy on EAN</a>