

Photoelectric Sensors (continued)

E3Z-LS family

OMRON



Distance-settable Photoelectric Sensor

Reliable Detection of Glossy, Uneven Objects Regardless of Background or Color.
Unique algorithm minimizes external interference from inverter fluorescent lighting.
Minimal differential travel to enable detecting small steps.

- power supply voltage 12 to 30 VDC
- 2 up to 20cm sensing distance
- dimensions 10,8 x 20x 31mm
- switching between background and foreground suppression (BGS/FGS)
- PNP output 100mA/26,4VDC
- reverse polarity/output short-circuit protection, mutual interference prevention
- connection method: pre-wired 2m or 4-pin M8 connector
- IP67 protection
- operating ambient temperature -25° to +55°C

Part No.	Description
E3Z-LS81	with 2m cable long
E3Z-LS86	with M8 connector

Part No.	Ord.No.
o E3Z-LS81 2M	71365
o E3Z-LS86	71366

E3Z-LL family

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The Most Compact Laser Sensor

- Excellent quality of E3Z
- Safe and reliable class 1 (JIS/IEC) laser used
- Excellent detection performance supporting long distance and low hysteresis
- Spot diameters can be customized. Increasing the spot diameter makes optical axis adjustment easier.

- distance settable and high speed response (0,5ms max.) models
- power supply voltage 12 to 30 VDC
- 2,5 up to 30cm sensing distance
- dimensions 10,8 x 20x 31mm
- forefront/background effect suppression
- PNP output 100mA/26,4VDC
- reverse polarity/output short-circuit protection, mutual interference prevention, reversed power supply polarity protection
- connection method: 4-pin M8 connector
- IP67 protection
- operating ambient temperature -25° to +55°C

Part No.	Description
E3Z-LL86	standard M8 connector, 20-160mm
E3Z-LL88	standard M8 connector, 25-100mm, high speed response

Sensing distance for black paper.

Part No.	Ord.No.
s E3Z-LL86	71976
s E3Z-LL88	71977

E3F2 family

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Photoelectric sensor in plastic or brass M18 housing

The cylindrical M18 size family offers a large standard portfolio in plastic or brass housings for through-beam, retro-reflective, diffuse-reflective and background-suppression models. For excellent price-performance for your standard applications.

- power supply voltage 12 to 30 VDC or 24 to 240 VAC
- dimensions: M18x 65mm DC version
M18x 90mm AC version
- plastic housing (brass or stainless steel on request)
- optics: axial or radial
- light source: infrared LED
- connection method: M12 connector or cable
- 3 or 4-wired
- adjustable sensitivity
- IP67 protection
- operating temperature -25° to +55°C

Part No.	Description
E3F2-DS30B4	DC version, axial, diffusive, 0,3m sens.distance, 2m cable
E3F2-DS30B4-P1	DC version, axial, diffusive, 0,3m sens.distance, M12 con.

Part No.	Ord.No.
s E3F2-DS30B4 2M	71359
s E3F2-DS30B4-P1	71360

Temperature Controllers

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E5CSV family



Basic Temperature Controllers

- dimensions 48x48x84mm
- power supply voltage 100 to 240 VAC or 24VAC/VDC
- control method ON/OFF or PID
- sensor input: universal (Pt100, JPt100, K, J, L, T, U, N, R)
- control output: relay output (resistive load) 3A/250VAC, voltage output 12V/21mA
- modes: heating/cooling
- setting change prohibit
- control period 2sec. or 20sec
- IP66 protection (front panel)

Part No.	Description
E5CSV-Q1T-500 AC100-240	binary voltage output
E5CSV-R1T-500 AC100-240	relay output

Part No.	Ord.No.
o E5CSV-Q1T-500 AC100-240	71431
s E5CSV-R1T-500 AC100-240	71432

E5GN family

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Digital Temperature Controller

- dimensions 48x24x100mm
- power supply voltage 100 to 240 VAC or 24VAC/VDC
- control method: ON/OFF or PID with fuzzy self-tune or auto-tune
- sensor input: thermocouple, Pt100, non-contact thermometer ES1A or analog inputs
- control output: relay SPST-NO, 2A/250 VAC voltage 12V/21mA
- with an alarm or with RS485
- 2 displays
- indication accuracy 0,5% PV + 1 digit
- IP66 protection (front panel)
- operating temp. -10°C to +55°C

Part No.	Description
E5GN-Q1P AC/DC 24	binary voltage output, alarm, Pt100
E5GN-R1TC AC100-240	relay output, alarm

Part No.	Ord.No.
o E5GN-Q1P AC/DC24	71433
o E5GN-R1TC AC100-240	71434

E5CN family

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Basic-type Digital Temperature Controller with enhanced functions

and performance, improved indication accuracy and preventive maintenance function. 2 line LCD display PV/SV, 4 digit 11segment display.

- dimensions 48 x 48x 78mm
- power supply voltage 100 to 240 VAC or 24 VAC/VDC
- control method: ON/OFF or PID with Fuzzy self tuning or auto tuning function
- sensor input: thermocouple Pt100, non-contact thermometer ES1A or analog voltage/current
- control output: relay, long-life relay output (hybrid), voltage output 12V/21mA (for driving SSR) or linear current output (0 to 20mA/600Ohm max.)
- modes: heating + 2 alarm relay outputs
heating/cooling + 1 alarm relay
- 2 line display - 11 segment, 3 colours (green, red, orange)
- setpoint ramp
- input sampling period 250ms
- indication of SSR errors
- DIN rail mounted type also available
- indication accuracy 0,5% PV + 1 digit
- IP66 protection
- operating temperature -10° to +55°C

Part No.	Description
E5CN-Q2MT-500 AC100-240	binary voltage output
E5CN-Q2MT-500 AC/DC24	binary voltage output
E5CN-R2MT-500 AC/DC24	relay output
E5CN-R2MT-500 AC100-240	relay output

Part No.	Ord.No.
s E5CN-Q2MT-500 AC100-240	64870
o E5CN-Q2MT-500 AC/DC24	71428
o E5CN-R2MT-500 AC/DC24	71429
s E5CN-R2MT-500 AC100-240	71430