



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OMRON ZFX. You'll find the answers to all your questions on the OMRON ZFX in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OMRON ZFX
User guide OMRON ZFX
Operating instructions OMRON ZFX
Instructions for use OMRON ZFX
Instruction manual OMRON ZFX



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Manual abstract:

The ZFX vision sensor comes as a one or two camera system, offering monochrome or colour functionality. Simply touch the large built-in LCD screen of the new ZFX vision sensor. Interactive menus guide you through the simple set-up of individual tasks in three easy steps. 1. Select inspection tools 2. Choose inspection regions 3. Set inspection parameters You'll be ready to go in a matter of minutes. There's no need to connect a PC for set-up, maintenance or operation. The LCD screen provides instant feedback showing interactive menus and useful information on the inspection status. The AUTO button accesses the intelligence of the ZFX, automatically setting the parameters which have been proposed.

Complete set-up in minutes Select inspection tools Choose inspection regions Set inspection parameters Master any job with the ZFX This vision sensor allows the configuration of multiple inspections per image and lets you select from up to 20 image inspection or inspection support tools. Depending on the connected camera, the tools will process a monochrome or colour image providing colour filters and colour pickup options.

@@@ZFX-SR/_SC_ is a cable drawing out type, it doesn't use it. 8ZFX ZFX1 Specifications
Controller Item Number of connected cameras Connectable camera Processing resolution Display LCD monitor Indicator 1 ZFX-SR/_SC_/_S/SC When ZFX-SR/_SC_ is connected:464 (H) x464 (V) When ZFX-S/SC is connected:608 (H) x464 (V) 3.5" TFT color LCD (320 x 240 pixels) "Measuring" indicator (color: green): RUN Trigger indicator (color: blue): ENABLE Judgment indicator (color: orange): OUTPUT Error indicator (color: red): ERROR 12 points (RESET, DSA, DIO to 8, TRIG) 22 points (OR, ERROR, RUN, ENABLE, GATE, STGOUT0, DO0 to 15) NPN PNP NPN PNP 1 port, FULL SPEED, MINI-B connector 1 port, max.

115200 bps (cannot be used simultaneously with RS-422 interface) 1 port, max. 115200 bps (cannot be used simultaneously with RS-232C interface) 1 port, 100BASE-TX/10BASE-T Analog RGB output, 1 ch (resolution VGA: 640 x 480) SD card slot 1 ch Touch panel, key operation, console connection Number of registered banks Number of setup items Measurement items Shape inspection Size inspection Edge inspection Brightness/color inspection Application-based inspection Code reading (-CD models only) 32 banks 32 items/1 bank Pattern, sensitive search Area Position, width, count Brightness, HUE Defects Defects, grouping Barcode (WPC(JAN/EAN/UPC), Code 39, Codebar (NW-7), ITF (Interleaved 2 of 5), Code 93, Code 128, GS1-128, GS1 Databar, Pharmacode) Datamatrix (ECC200, QR Code, MicroQR Code, PDF417, MicroPDF417, Maxi Code, AZtec Code, Codablock) 1 model search, 2 model search, position, area Max. 100 images 21.6 to 26.4 VDC (including ripple) 1.

0 A max. 1.5 A max. (by 250 V megger) Across all lead wires and controller case: 20 M Max. 100 images (50 for 2 x cameras) Power supply voltage Current consumption Insulation resistance Dielectric strength Operation environment robustness Ambient temperature range Ambient humidity range Ambient atmosphere Degree of protection Vibration resistance (durability) Shock resistance (destructive) 128 items/1 bank Pattern, sensitive, graphic, flexible search Area, labeling ZFX-C10(-CD) ZFX-C15(-CD) 2 ZFX-C20(-CD) ZFX-C25(-CD) External I/F Parallel Interface Input Output Circuit type Serial Interface USB2.0 RS-232C RS-422 Network communications Monitor output Memory card I/F Operation I/F Main functions Ethernet Postion correction Support Ratings Image memory function Across all lead wires and controller case, 1000 VAC, 50/60 Hz, 1 min Operating: 0 to +50°C, Storage: -15 to +60°C (with no icing or condensation) Operating and storage: 35% to 85% (with no condensation) No corrosive gases allowed IP20 (IEC60529) Vibration frequency: 10 to 150 Hz Single-amplitude: 0.35 mm Acceleration: 50 m/s² 10 times for 8 minutes 150 m/s² 3 times each in 6 directions (up/down, left/right, forward/backward) Camera Item Detection range (H x V) Detection range H V ZFX-SR10 5x4.9 mm to 9x8.9 mm (variable) ZFX-SR50 10x9.8 mm to 50x49 mm (variable) ZFX-SC10 5x4.

9 mm to 9x8.9 mm (variable) ZFX-SC50 /SC50W 10x9.8 mm to 50x49 mm (variable) ZFX-SC90 /SC90W 50x49 mm to 90x89 mm (variable) ZFX-SC150 /SC150W 90x89 mm to 150x148 mm (variable) (monochrome type) ZFX-S ZFX-SC (color type) The CCTV lens is selected according to the detection range and the setting distance. Setting distance (L) Relationship between setting distance and detection range 34 to 49 mm Setting distance (L) 49 mm 34 mm 5mm 9mm 38 to 194 mm Setting distance (L) 194 mm 38 mm 10mm 50mm 34 to 49 mm Setting distance (L) 49 mm 34 mm 5mm 9mm 31 to 187 mm Setting distance (L) 187 mm 31 mm 10mm 50mm 67 to 142 mm Setting distance (L) 142 mm 67 mm 50mm 90mm 115 to 227 mm Setting distance (L) 227 mm 115 mm 90mm 150mm Detection range (H) Detection range (H) Detection range (H) Detection range (H) Detection range (H) Detection range (H) Image rate function All-pixel capture inter-line transfer type 1/3" CCD (monochrome) (with Lens) All-pixel capture inter-line transfer type 1/3" CCD (color) All-pixel capture inter-line transfer type 1/3" CCD (monochrome) C mount All-pixel capture inter-line transfer type 1/3" CCD (color) Lens mount Vision Systems 2 9 Vision Systems Item Lighting Lighting method LED Type Guide light Optional lighting I/F ZFX-SR10 Pulse lighting Red LED Direct lighting ZFX-SR50 ZFX-SC10 ZFX-SC50 /SC50W ZFX-SC90 /SC90W ZFX-SC150 /SC150W (monochrome type) ZFX-S ZFX-SC (color type) White LED Available (center, measurement Not available region) Not available Not available Available (ZFX-LT Series) Not available Available External lighting: 3Z4S-LT Series Flash Controller: made by Moritex Corporation 3Z4S-LT MLEKC100EITSX Approx. 100 mA Indicator Class*1 Ratings Current consumption Ambient temperature range Approx. 200 mA Class 1 Class 2 Class 2 Class 1 Approx. 350 mA (15 VDC: approx. 150 mA, 48 VDC: approx. 200 mA) (including current consumption when optional lighting is connected) Operation environment robustness Operating: 0 to +40°C, Storage: -20 to +65°C (with no icing or condensation) Operating: 0 to +50°C, Storage: -20 to +65°C (with no icing or condensation) Ambient Operating and storage: 35% to 85% (with no condensation) humidity range Ambient atmosphere Degree of protection Dielectric strength Vibration resistance (durability) Shock resistance (destructive) Connection method No corrosive gases allowed IP65 (IEC60529) 1000 VAC 50 Hz/60 Hz 1 min 10 to 150 Hz Single-amplitude 0.35 mm 10 times for 8 min each in X, Y, and dustrial.
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