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Vision Sensor

F150-2

Omron Vision Sensor

- Pitch measurement tool to check for current number of pin.
- Edge measurement tool to measure distance between edges.
- Built-in camera, light source and lens to reduce installation time.
- Can store up to 23 inspected images for later analysis.
- DeviceNet interface for easy network connection.



Ordering Information

Product	Model
DeviceNet for communications	F150-C10E-2-DRT

Specifications

■ Vision Mate Controller

Item	Specifications		
	Auto Menu	Expert Menu	
Number of connectable cameras	1		
Number of pixels	512 (H) x 484 (V)		
Number of scenes	16		
Image memory function	Maximum of 23 images stored		
Processing method	Gray/Binary		
Filtering	Automatic or smoothing, edge enhancement, all edges, and background cut	Smoothing, edge enhancement, all edges, and background cut	
Number of binary levels	Automatic	256 levels per region	
Position displacement compensation	Automatic or ON/OFF	Compensating directions: X, Y, and \square directions Detection mode: Binary gravity/Axis angle, center, gradation search (1 model or 2 models), and edge position	
Number of inspection regions	Automatic or 16 regions/scene	16 regions/scene	
Measurement data	Automatic	Binary area, center of gravity, and axis angle Gradation correlation, gradation search position, degree of defect, edge position, and edge pitch	
Operating function	---	Arithmetic operation, distance, angle, and maximum and minimum values	
Criteria result output	General	Overall judgement Judgement of operation results per region Measurement and operation data	
Monitor interface	1 channel (pin jack)		
RS-232C I/F	1 channel (D-sub, 9-pin, female)		
Parallel I/O	11 inputs and 21 outputs including control I/O points		
	Output type	NPN	F150-C10E-2
		PNP	F150-C15E-2
		1 input and 5 outputs including control I/O points	
Power supply voltage	24 VDC+10%/-15%		
Current consumption	Approx. 0.5 A		
Ambient temperature and humidity	Operating: 0°C to 50°C Operating: 35% to 85% (with no condensation)		
Weight	Approx. 390 g		

■ DeviceNet for Communications (F150-C10E-2-DRT)

Item	Specifications		
Communications protocol	DeviceNet		
Connection forms (see note 1)	Combination of multi-drop and T-branch connections (for trunk or drop lines)		
Baud rate	125 Kbps, 250 Kbps, or 500 Kbps (selectable using the DIP switch)		
Communications media	Special 5-wire cables (2 signal lines, 2 power lines, 1 shield line)		
Communications distances	Network length	Drop line length	Total drop line length
	500 Kbps	100 m max. (see note 2)	6 m max. 39 m max.
	250 Kbps	250 m max. (see note 2)	6 m max. 78 m max.
	125 Kbps	500 m max. (see note 2)	6 m max. 156 m max.
Communications power supply	11 VDC to 25 VDC		
Node number	0 to 63 (selectable using the DIP switch)		
Error control checks	CRC error check		

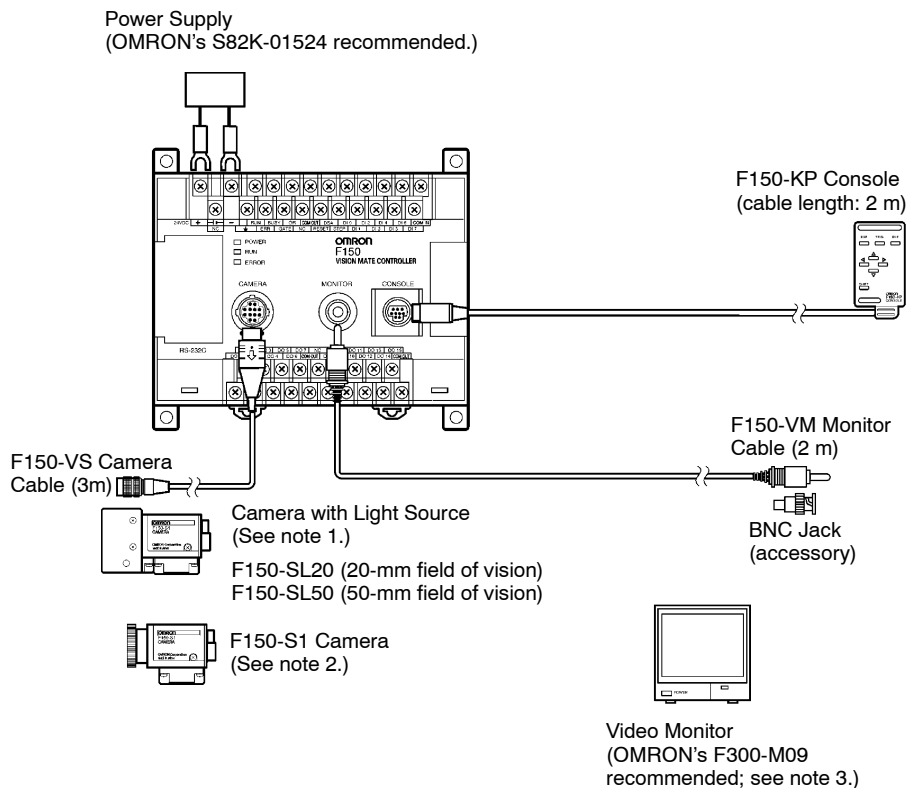
Note 1: Terminating resistors are required on both ends of a trunk line.

Note 2: Indicates the length when thick cables are used. Reduce the network length to 100 m max. when using thin cables.

■ F150-SL20/SL50 Camera with Light Source F150-S1 Camera

Item	Specifications	
Camera	Picture element	1/3" Interline CCD (reading all pixels)
	Effective pixels	659 x 494 (H x V)
	Shutter function	Electronic shutter: 1/100, 1/500, 1/2,000 or 1/10,000 (menu-selectable)
Lens	Camera distance	F150-SL20: 61 to 71 mm F150-SL50: 66 to 76 mm
	Field of vision	F150-SL20: 20 mm F150-SL50: 50 mm
Lighting	Light source	Red LED (20% deterioration after 1,500 hours in operation)
	Flash method	Pulse flash (synchronized with camera shutter)
Ambient temperature and humidity	Operating: 0°C to 50°C Operating: 35% to 85% (with no condensation)	
Weight	Camera with light source	Approx. 135 g
	Camera	Approx. 70 g

■ System Configuration
Easy to connect and use



Note 1: F150-SL Cameras are the same as F150-S1 Cameras except that they have a lens and light attached.

Note 2: If the field of vision is too small, use the F150-S1 Camera with a normal CCTV lens and light.

Note 3: Use an NTSC monitor with an external video input terminal.

NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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