Origin sensor, limit sensor

ECS Series

	Manufacturer	Model
Outside mounted sensor	OMRON Corporation	EE-SX672
Inside mounted sensor	OMRON Corporation	EE-SX674

Performance

Item	Specifications
Hysteresis	0.025 mm or less
Light source (peak emission wavelength)	GaAs infrared LED (940 nm)
Indicator lamp	ON when receiving light (red)
Power supply voltage	5 to 24 VDC ±10% ripple (P-P) 10% or less
Current consumption	35 mA or less (NPN)
Control output	NPN: NPN open collector output 5 to 24 VDC 100 mA or less OFF state current 0.5 mA or less Residual voltage 0.8 V or less (at load current 100 mA) Residual voltage 0.4 V or less (at load current 40 mA)
Operating ambient illumination	Light-receiving surface luminance Fluorescent light: 1,000 lx or less
Ambient temperature range	When operating: -25 to +55°C When stored: -30 to +80°C (no condensation or freezing)
Ambient humidity range	When operating: 5 to 85% RH When stored: 5 to 95% RH (no condensation or freezing)
Degree of protection	IP50 IEC 60529 Standards
Cord length	2 m (Connector with cord [EE-1006 2M])

Output circuit



Wiring diagram



Terminal layout

Brown	5 to 24 VDC
Pink	L
Blue	0 V
Black	OUTPUT

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Sales of ECS-05 to ECS-12 will be terminated.





	Motor mounting direction				
		F	२	I	-
Body size	E/D/B	Grease nipple None	Grease nipple Yes	Grease nipple None	Grease nipple Yes
ECS-14	Fig. 6	Fig. 6	Fig. 7	Fig. 6	Fig. 7
ECS-17	Fig. 6	Fig. 6	Fig. 7	Fig. 6	Fig. 7
ECS-22	Fig. 8	Fiç	j. 8	Fig	j. 8



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ECS series Sales of ECS-05 to ECS-12 will be terminated.



Safety



MEMO

Discontinued some variations ECS Series

Sales of ECS-05 to ECS-12 will be terminated.

Basic

Servo motor compatible

Motor mounting bolt (common motor mounting direction)

Model No.	Mounted motor specification	Motor capacity	Size	Quantity
ECS-05	М		M4	2
ECS-06	Y	100 W	M4	2
ECS-10	Р		M3	4
ို ECS-12	F		M4	2
ш	М		M5	4
ECS-14	Y	200 W	M5	4
A-iti	Р	400 W	M4	4
	F		M5	4
	М	400 W	M5	4
ECS	Y		M5	4
Ш	Р		M4	4
ECS-17	F		M5	4
>	М		M6	4
μ	Y	750.14/	M6	4
	Р	750 W	M5	4
>	F		M6	4
ы Ш	М		M6	4
FCS 22	Y	750 \\	M6	4
ECS-22	Р	750 W	M5	4
ж ш	F		M6	4

By motor mounting direction

Model No.	Attachment name	Included quantity
E (external direct mounting) B (built-in)	Coupling (Assembled at shipment)	1
R (right-side mounting)	Timing belt	1
L (left-side mounting) D (bottom mounting)	Pulley	1

When origin/limit sensor is selected *1

Sensor mounting direction Shipping format		Quantity
Inside sensor	Fixed position assembled at shipment	3 *2
Outside sensor	Included at shipment *3	5 2

*1 Shipping format varies according to whether origin sensor and limit sensor are assembled inside or outside.

*2 When "None" is selected for origin sensor or limit sensor, the other sensor is also "None".

*3 Sensor mounting screws are also included.

Suction port fitting

ution	Model No.	Fitting model No.	Shipping format	Quantity
eca	ECS-05/ECS-06	GWL6-M5	Assembled at shipment	2
ď	ECS-10 to ECS-22	GWL10-8	Included at shipment	1

Sales of ECS-05 to ECS-12 will be terminated. ECS series Maintenance parts

Maintenance parts

Maintenance parts set

	-						\mathbf{O}
			Components				
		(1)	(2)	(3)	(4)	(5)	
Model No.	Compatibility	Timing belt	Pulley	Sensor dog	Photoelectric bracket	Roller unit	τ̈́ς
		\bigcirc	0				ETS
ETS-08JP002-0001	ECS-05	◯ (1 pc)	◯ (1 pc)	◯ (1 pc)	-	-	Serv ETSI
ETS-08JP002-0002	ECS-06	○ (2 pcs)	◯ (1 pc)	◯ (1 pc)	-	-	vo ma Multi-A
ECS-08JP002-0009	ECS-10	◯ (3 pcs)	◯ (2 pcs)	○ (1 pc)	◯ (4 pcs)	◯ (4 pcs)	vis
ECS-08JP002-0010	ECS-12	○ (2 pcs)	○ (2 pcs)	○ (1 pc)	◯ (4 pcs)	◯ (4 pcs)	отр: EC
ECS-08JP002-0011	ECS-14	◯ (2 pcs)	○ (3 pcs)	◯ (1 pc)	-	◯ (4 pcs)	Servo motor compatible ETS Multi-Axis ECS
ECS-08JP002-0012	ECS-17	◯ (4 pcs)	○ (2 pcs)	○ (1 pc)	-	◯ (4 pcs)	
ECS-08JP002-0013	ECS-22	◯ (3 pcs)	○ (2 pcs)	○ (1 pc)	-	◯ (6 pcs)	ETV

Maintenance parts (coupling)

Model No.	Compatibility	Motor capacity	Hole diameter
ETS-22007-000136	ECS-05, 06	100 W	ø8
ETS-22007-000014	ECS-10, 12	100 W	ø8
ETS-22007-000289	ECS-10,12,14 (Mounted motor specification: F)	200W	ø9
ETS-22007-000016	ECS-10, 12, 14 (Mounted motor specification: P)	200 W	ø11
ETS-22007-000017	ECS-10, 12, 14 (Mounted motor specification: M, Y)	200 W/400 W	ø14
ETS-22007-000022	ECS-17 (Mounted motor specification: P)	400 W	ø14
ETS-22007-000358	ECS-17 (Mounted motor specification: F)	750 W	ø14
ETS-22007-000397	ECS-22 (Mounted motor specification: F)	750 W	ø14
ETS-22007-000024	ECS-17 (Mounted motor specification: M, Y)	750 W	ø19
ETS-22007-000029	ECS-22 (Mounted motor specification: M, Y, P)	750 W	ø19

Maintenance parts (outside mounted sensor)

Basic price model No.	Compatibility	Part
ETS-22008-000001	All models	Body
ETS-22008-000006	All models	Cable

ECS Series

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Dust generation characteristics Reference data



Dust generation data

The values in the data are measured values under the above conditions, and are not guaranteed.

Description



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