

TECHNICAL BULLETIN

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[Title] Production discontinuation of MELSEC-A series model **[Date of Issue]** February, '04

[Relevant Models] A1SY42

Thank you for your continued support of Mitsubishi MELSEC-A series.

Production of the following MELSEC-A series model will be discontinued.

1. Model to be discontinued

Product name	Model
A series I/O module	A1SY42

2. Schedule

- (1) Order acceptance : Through July, 2004
- (2) Production discontinuation : Through August, 2004
- (3) Repair acceptance : Through August, 2011 (For 7 years after production discontinuation)

3. Reasons for discontinuing production

An alternative (upward compatible) model, A1SY42P will be released.

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4. Specifications comparison between A1SY42P and A1SY42

Model		A1SY42P	A1SY42
Specifications			
Number of output points		64 points	
Insulation method		Photocoupler	
Rated load voltage		12/24VDC	
Operating load voltage range		10.2 to 30.4 VDC (peak voltage: 30VDC)	
Max. load current		0.1 A/point, 2A/common	0.1 A/point, 1.6A/common
Max. inrush current		0.7A 10ms or less	0.4A 10ms or less
Leakage current at OFF		0.1mA or less	
Max. voltage drop at ON		0.1VDC (TYP.) 0.1A 0.2VDC(MAX) 0.1A	1.0VDC (TYP.) 0.1A 2.5VDC(MAX) 0.1A
Response time	OFF→ON	1ms or less	2ms or less
	ON→OFF	1ms or less (rated load, resistance load)	2ms or less (rated load, resistance load)
Surge suppression		Zener diode	
Fuse		None	Fuse 3.2A (1 piece/common), not replaceable ^{*1} .
Wiring method for common		32 points/common (common terminals: 1A1, 1A2, 2A1, 2A2)	
Protection method		Available (thermal protection, short circuit protection) • Thermal protection for each O/P point. • Short circuit protection for each O/P point.	None
Error indication		None	Available (LED goes on when fuse is blown, signal is output to CPU.) ^{*2}
Operation indicator		ON indication (LED), 32 point switch-over using switch	
External connections		40-pin connector	
Applicable wire size		0.3mm ²	
Accessory		External wiring connector (soldering type): 2pcs	
Applicable connector/terminal block conversion module		A6TBXY36, A6TBXY54	
External power supply	Voltage	12/24VDC (10.2 to 30VDC) (ripple ratio: within 5%)	
	Current	14mA (TYP. 24VDC/common)	8mA (TYP. 24VDC/common)
5VDC internal current consumption		170mA (TYP. all points are ON)	930mA (TYP. all points are ON)
Weight		0.17kg	0.27kg

*1: The fuse that was included in the A1SY42 was limited to only protecting the wiring between the A1SY42 and the external device from burning out when a short occurred in the external device. However, this did not protect internal components in the A1SY42, such as transistors, capacitors, etc., from being destroyed. Also, the internal fuse did not protect against other faults caused to the A1SY42 internal components.

*2: The "ERR." LED also turns ON when the external power supply is switched off.

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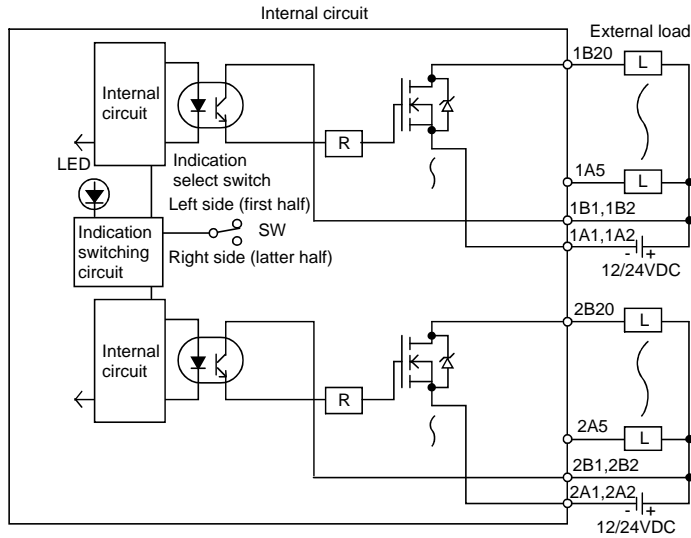
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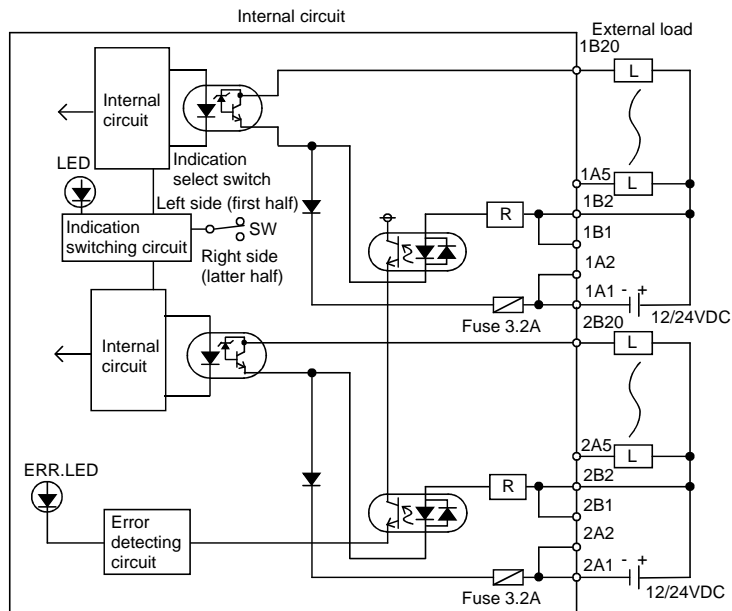
[Relevant Models] A1SY42

5. A1SY42P/A1SY42 internal circuit diagrams

(1) A1SY42P circuit diagram



(2) A1SY42 circuit diagram



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