

Product News No. 14

January 23, 2014

YUKEN KOGYO CO.,LTD.

Public Relations Group Products Publicity Section Sales Administration Department

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Power Amplifiers for High Response Type Directional and Flow Control Valves

AMB-EL-*-*-*-20

Notice of Model Change

We are pleased to announce that the highly reputed power amplifiers for high response type direction and flow control valves AMB-EL have been remodeled by supporting a wider variety of I/O signal types.

■ Major Changes

While the previous models support only one I/O signal type (voltage signal ± 10 V), the remodeled products support additional I/O signal types (current signal 4 - 10 mA and current signal ± 10 mA). Along with this change, the I/O signal type designation has been added to the model number designation.



■ Specifications

Model Numbers Items	AMB-EL-01	AMB-EL-03	AMB-EL-04	AMB-EL-06			
Max. Output Current	2.5 A 3.0 A 2.5 A						
wax. Output Current	(3.9 Ω Solenoid)	(3 Ω Solenoid)	(3.9 Ω Solenoid)				
	Voltage Signal Type (A, D): ±10 V/±5 V *1						
Max. Input Voltage	Current Signal Type (B, E): 4 - 20 mA						
	Current Signal Type (C, F): ±10 mA						
Input Impedance	Voltage Signal Type (A, D): $100 \text{ k}\Omega$ (50 k Ω in single-end mode)						
mput impedance	Current Signal Type (B, C, E, F): 200 Ω						
Slope-off Input	4 - 28 V						
Slope Adjust Time	0.05 - 5 s (The slope adjustment function is not available with AMB-EL-*-2P.)						
Stroke Monitor Signal *2	Voltage Signal Type (A, D): ± 10 V/Rated Stroke (RL ≥ 10 k Ω)						
	Current Signal Type (B, E): 4 - 20 mA/Rated Stroke (RL 100 - 500 Ω)						
	Current Signal Type (C, F): ±10 mA/Rated Stroke (RL 100 - 500 Ω)						
Alarm	Open Collector (30 V DC, 10 mA Max.)						
Supply Voltage Range	21 - 28 V DC						
Power Input	30 W	40 W	30 W				
Ambient Temperature	0 - 50 °C						
Ambient Humidity	85 %RH or less (No Condensing)						
Connector	DIN41612-F32						
Approx Mass	280 g	280 g	340 g	340 g			

■ Applicable to Valve

Power Amplifier Model Numbers	Valve Model Numbers
AMB-EL	ELDFG-01/03 ELDFHG-04/06

- *1. The input signal voltage can be switched between ±10 V and ±5 V by the "input sensitivity selection jumper plug" in the amplifier.
- *2. For AMB-EL-04/06, the value corresponds to the monitoring of the main spool stroke; the monitor signal for the pilot spool stroke is ±10 V/rated stroke.

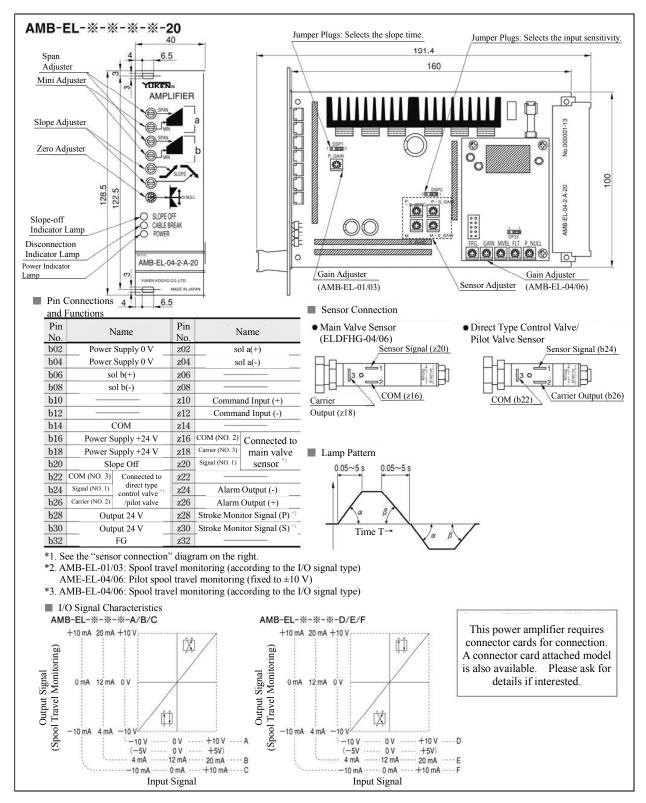
■ Model Number Designation

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AMB	-EL	-03	-2P	-1	-A	-20		
Series Number	Type of Function	Size of Applicable Valve	Applicable Spool Type	Compensation	I/O Signal Type	Design Number		
AMB EL: DC Input Type Directional and Flow Control with Minor Feedback	01 03 04	None: 3C2, 3C40	* 1: 40/80 L/min 2: 280 L/min	A: Voltage Signal ±10 V (Positive Input: P→B→A→T Flow) B: Current Signal 4 - 20 mA (12 - 20 mA: P→B→A→T Flow) C: Current Signal ±10 mA (Positive Input: P→B→A→T Flow) D: Voltage Signal ±10 V (Positive Input: P→A→B→T Flow) E: Current Signal 4 - 20 mA (12 - 20 mA: P→A→B→T Flow) F: Current Signal ±10 mA (Positive Input: P→A→B→T Flow)	20			
	with Minor 06	2P: 3C2P	3: 350 L/min 4: 500 L/min					

Please refer to us for *.



PRODUCTS NEWS



■ Timing of Release

Scheduled to be released in MM 2013.

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