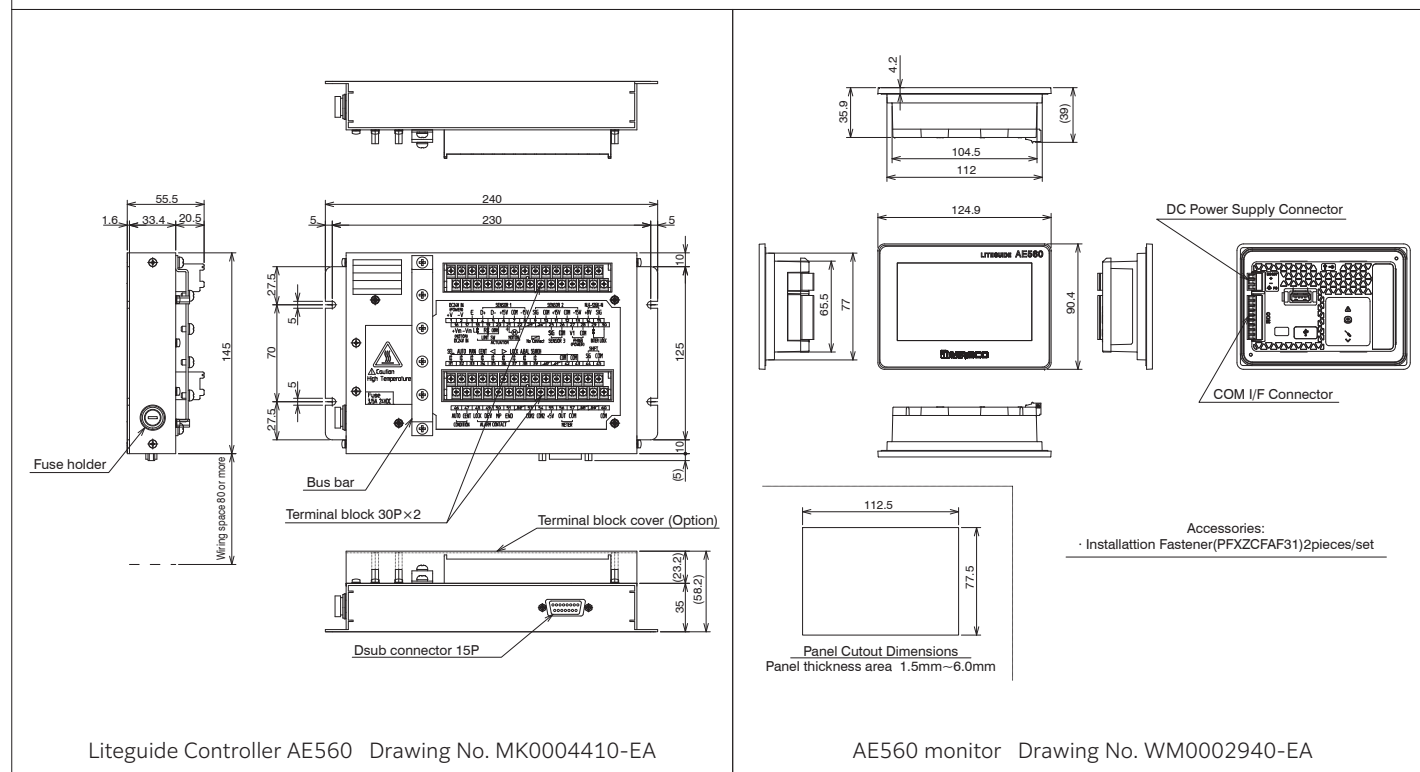
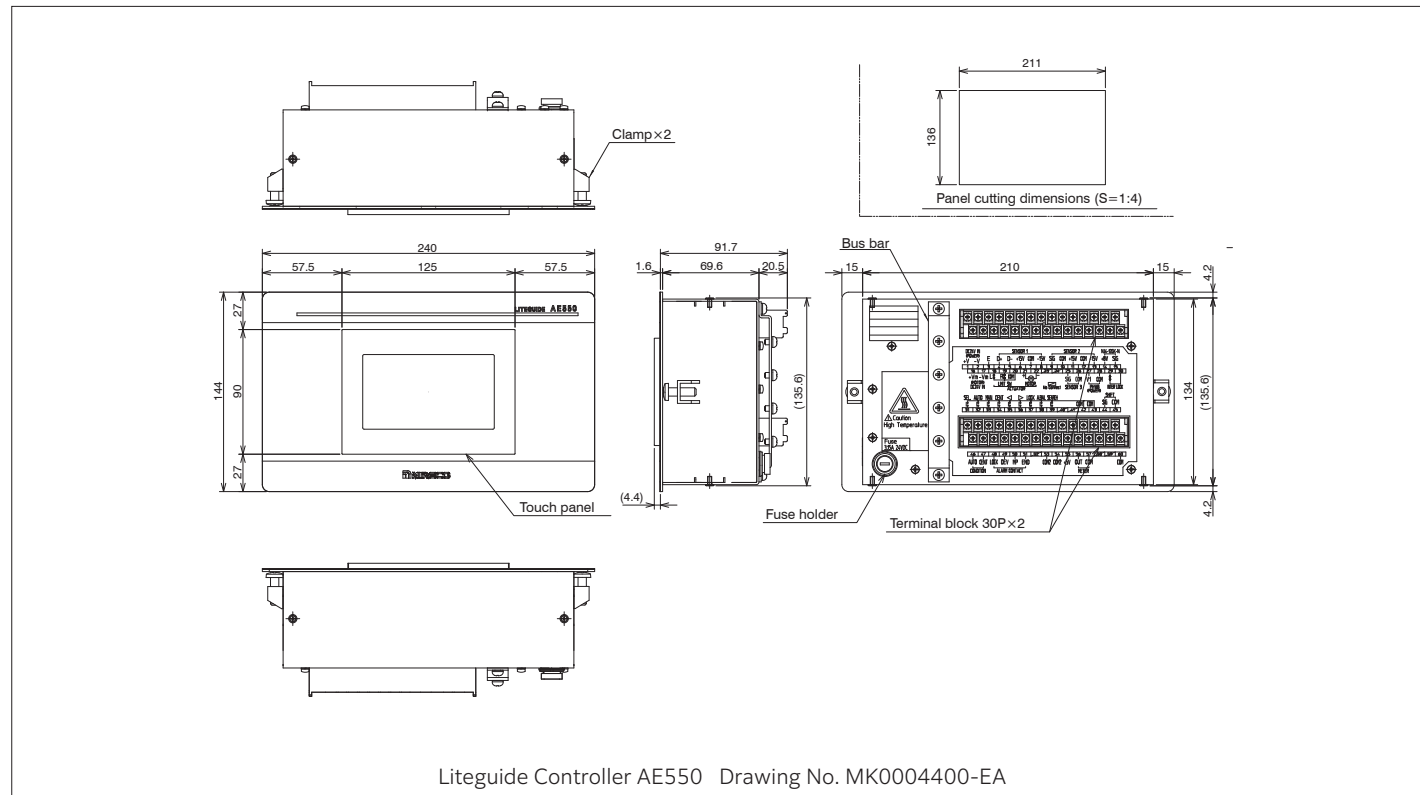


Liteguide Controllers AE550 / AE560

DPC / LFC / EPC / CPC
Web Control System

**Compact, with a full range of functions!
Separated monitor version available!**



**AE550
Integrated
monitor**

**AE560
Separated
monitor**



* Main unit separate from the monitor

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System components

Liteguide Controllers AE550/AE560

The display unit and the operating unit feature a color touch-screen panel, for enhanced visibility and ease of use. In addition, increasing the input circuits enables CPC control and increases the choice of sensor options.

AE550 Integrated monitor



AE560 Separated monitor



* Main unit separate from the monitor

Power supply voltage	+24 V DC (4A) (peak response considered to be 6 A and approx. 50 msec.) • When NIC100 + NIP100 used: +24 V DC, 6 A or greater (When the controller power supply and the motor power supply are the same) * If these power supplies are different, please use the following capacities. Controller power supply: +24 V DC, 1 A Motor power supply: +24 V DC (3 A) (peak response considered to be 6 A and approx. 50 msec.) Power supply fuse: 3.15 A, 24 V DC (time-lag type)	
Mass	AE550: 1.8 kg AE560 main unit: 1.7 kg, monitor: 0.22 kg	
Environment	Ambient operating temperature	0 to +50°C
	Ambient operating humidity	35 to 85% RH or lower (no condensation)
	Vibration resistance	3.5 mm, 1G, 3 to 150 Hz, movement in 3 directions (1 hour)
	Power supply noise	2.5 kVp-p, normal mode, common mode, 50 ns, 1 μs pulse width
Operating atmosphere	Locations free of water drops, flammable gases, corrosive gases, and with little dust	

* Same conventional functions as the AE500, AE120 and AE122.

Sensor

Detects and memorizes lines, edges, patterns and text (will depend on the type of sensor). Recognizes subtle degrees of web meandering.

● DPC® Design Position Control System

NI SERIES Nireco Intelligent Camera NIC100
Nireco Intelligent Panel NIP100



Effective detection length	±5 mm
Applications and special features	DPC: Capable of meandering control (based on pattern criteria)

● Line Follower Head LH500



Effective detection length	±3.5 mm
Applications and special features	EPC/LFC: Detects printed lines and the web edge above the roller.

● Ultrasonic sensor UH01



Effective detection length	±4 mm
Applications and special features	EPC/CPC: Detects the edges of transparent films and photosensitive materials.

● Photohead PH16B



Effective detection length	±4 mm
Applications and special features	EPC/CPC: Detects the edges of non-transparent webs and photosensitive paper.

● Ultrasonic Autowide sensor UHW051, UHW280



Effective detection length	56 mm, 280 mm
Applications and special features	EPC/CPC: Detects the edges of transparent films and photosensitive materials over a wide field of view.

● Autowide sensor AWE280A



Effective detection length	280 mm
Applications and special features	EPC/CPC: Detects digitally the edges of non-transparent films, non-woven fabrics and lattice-like webs over a wide field of view.

Linear/Rotary actuators

● K50 series



Motor, speed-reduction gear and ball screw are integrated (excluding rotary models).

Model	Thrust (kN)	Stroke (mm)	Speed (mm/s)	Mass (kg)
K50-150-20	1.5	135	20 (*)	6
K50-200-20		185		6.5
K50-150-20/A		135		6.5
K50-200-20/A		185		7

(*) Speeds shown are when unloaded. A: With centering function

● K12 series

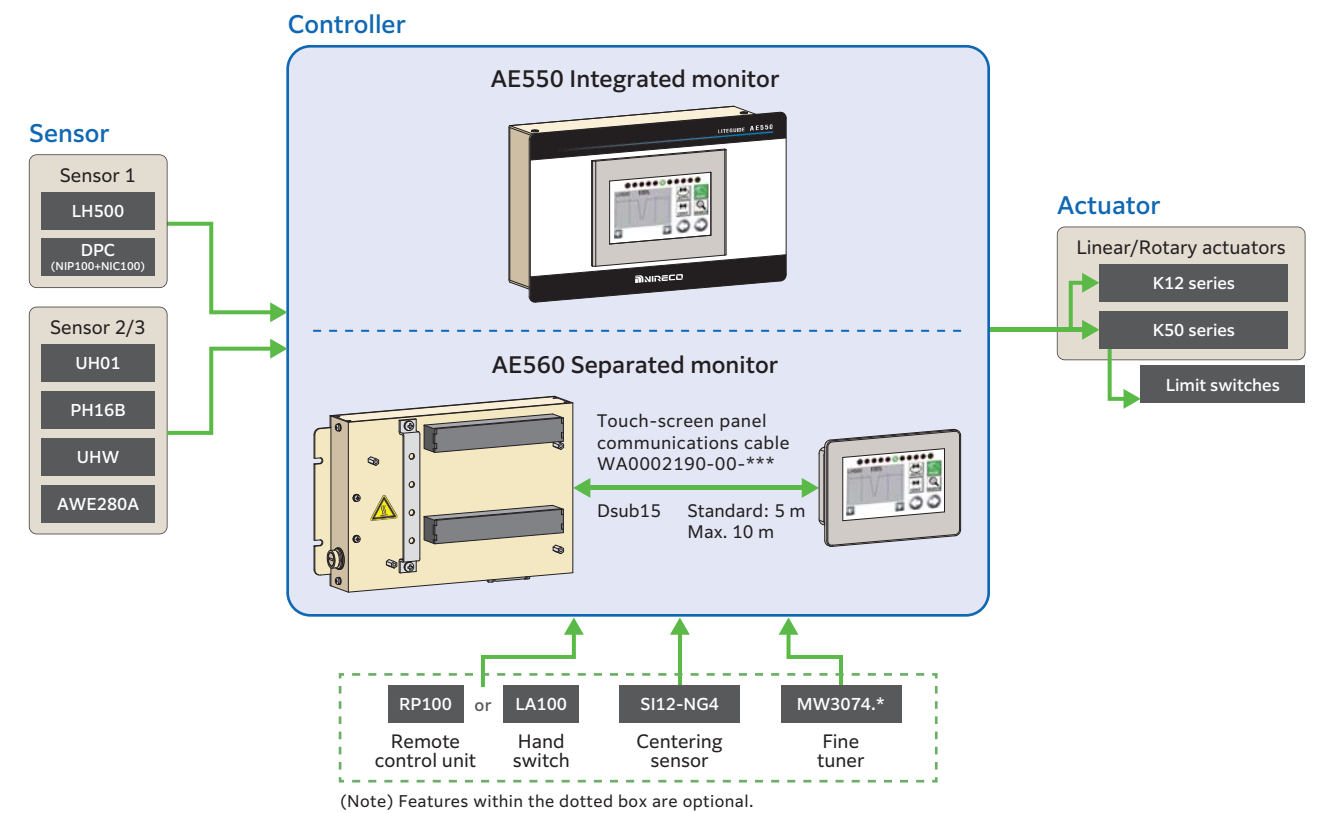


Model	Thrust (kN)	Stroke (mm)	Speed (mm/s)	Mass (kg)
K12-00-70	—	—	—	1.2
K12-00-450	—	—	—	1.2
K12-80-07	300	80	8 (*1)	3.1
K12-80-20	150	80	40 (*1)	3.0
K12-150-07	300	150	8 (*1)	3.7
K12-150-20	150	150	40 (*1)	3.7

(*1) Speeds shown are when unloaded.

(*2) Strokes other than those above may be selected for the K12 series models. For details, please contact our sales office.

Basic Configuration



● Input

Voltage input for analog shift	Max. 0 to 5 V
Contact inputs	Photo-coupler 15 V DC, 14 mA ● 3 points for operation mode switching • Auto mode • Manual mode • Centering mode ● Contact points for operation: manual operation left (for shifting when in automatic mode) • Auto balance • LH500 search ● 4 points for the actuators • End limit right * (* 24 V DC, 4 mA) • End limit left * • Lock • Interlock ● 1 point for system switching • System switching (EPC1/EPC2)

● Output

Power supply for shift (when VR is used)	5 V DC
Analog voltage output (for the deviation indicator)	±10 V (Max.)
Contact outputs	Open collector 24 V, 40 mA ● 2 points for operation mode confirmation • In automatic mode • In centering mode ● 4 points for alarms • Actuator lock • Actuator end • Excess deviation • Main panel (Error/normal)