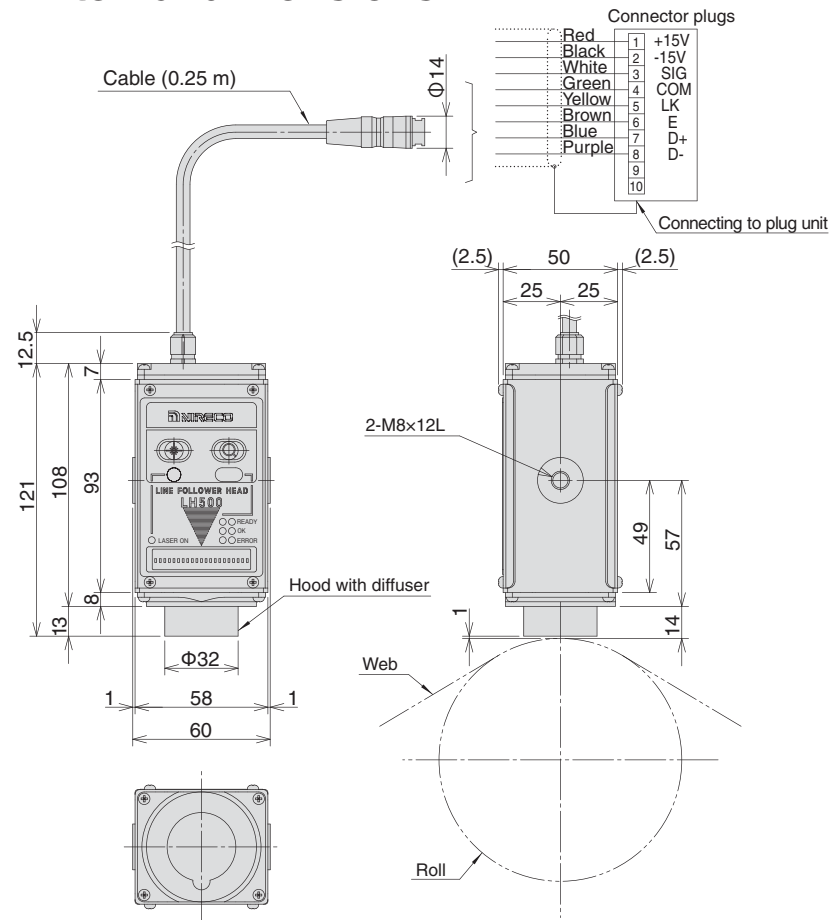
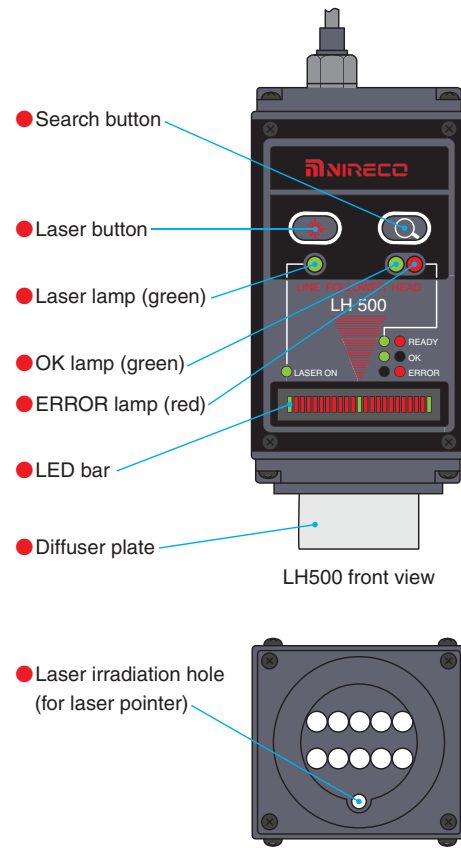


External dimensions



Line Follower Head LH500 Drawing number: MD0002640-EA

Names of parts



Specifications

Spotlight distance	With diffuser plate: 1 mm (from web surface to diffuser plate surface) No diffuser plate: 15 mm (from web surface to main unit surface)
Detection range	7 mm (with reference to memory pattern position)
Pattern memory width	3 mm (main unit center)
Light source	Blue and red high luminance LED
Output	1) Position signal (voltage output): 0.7 to 4.3 V DC (High) 0.07 to 0.43 V DC (Low) 2) Actuator lock signal: Open collector output 30V, 0.1 A or less ON conditions: pattern errors or outside of pattern field of view, in search mode

Detection element	CCD linear image sensor
Pixel resolution	14 μ m
Power supply	+15V DC, 250 mA / -15 V DC, 30 mA
Ambient temperature	0 to +50 °C (no condensation)
Laser	Class 2 (IEC), ON/OFF switch(for laser pointer)
Body material	AC4C
Outer dimensions	108 (H) \times 58 (W) \times 50 (D) mm (projected part is not included)
Mass	Main unit: 0.5 kg Screw guider: 0.5 kg
Cables	LH500 cable (optional) Model: MD0002640-70 Conversion cable (optional) Model: MD0002640-80

The details contained in this catalog are subject to change without notice. Please contact us at the following address when considering a purchase.

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This new line follower sensor features the latest imaging technology to keep slit failures to an absolute minimum



**Line Follower Head
LH500**

Line Follower Head LH500

This new line follower sensor features the latest imaging technology to keep slit failures to an absolute minimum

Line Follower Head LH500 is a sensor that optically detects register lines or patterns printed on a web and, in combination with a controller (*1), can be used to form an EPC (Edge Position Control) and LFC (Line Follower Control) system. Line Follower Head LH500 stores detected lines as image information, which it uses to perform pattern matching and comparison operations on image information during operation. With this new system, even if register lines and printing accessories are mixed, the stored lines are always tracked.

*1 Liteguide controller AE1000/AE900L, Web Guide amplifier EH321A



Special Features

Printed lines stored as image information

The new system is highly effective and keeps track of stored line information, even if register lines and printing accessories are mixed.

Automatic optimization of illuminant color and light volume completed simply by pressing the search button

The sensor has an automatic light adjustment function which can be used also for highly reflective material, such as aluminum foil and copper foil.

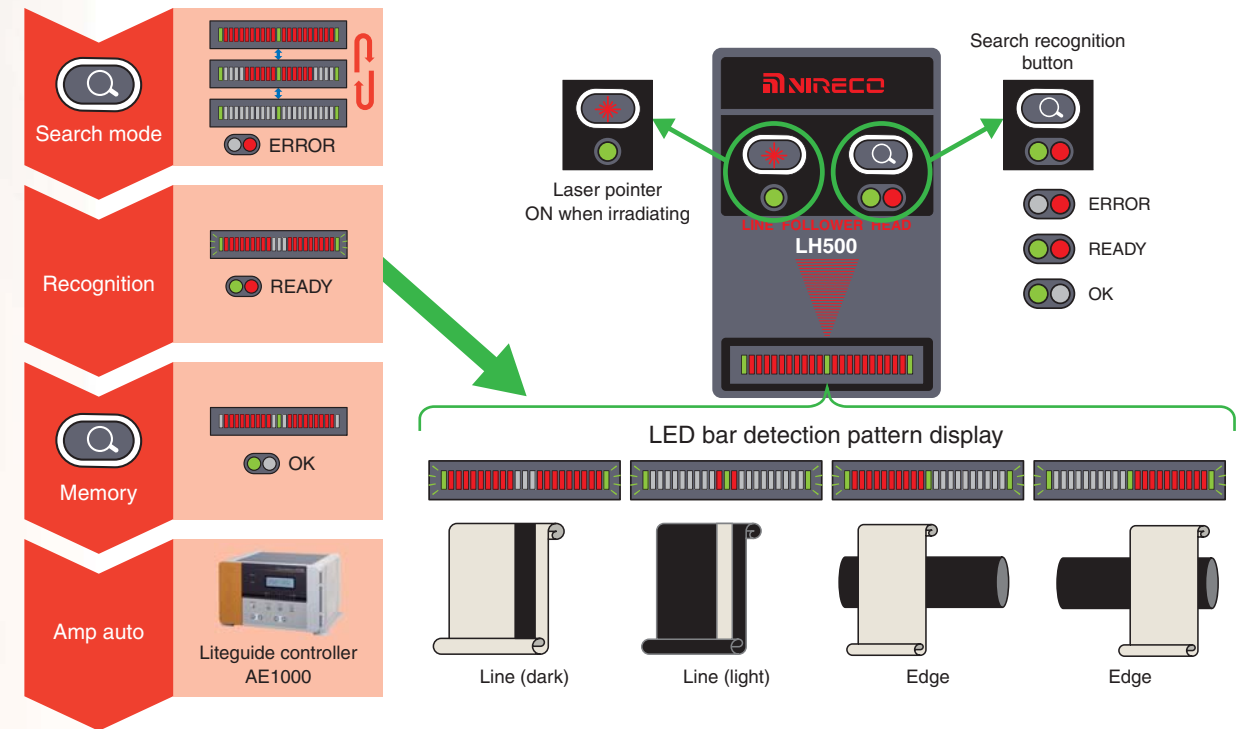
Central positioning simple with laser pointer

The device is equipped with a laser pointer, improving visibility of control position.

LED bar makes detection status easy to see

The detected object and detection status can be seen at a glance. Use the search button to toggle between operating mode (deviation display) and search mode (pattern display).

LH500 operating procedures



Application

This is an example of using a combination of LH500 and a Liteguide controller with a slitter machine. The register lines or patterns printed on a web are detected using LH500. Then, so that the line always passes through the reference position, the unwinding reel shifts in the opposite direction from the deviation to cancel out irregularity, stretching, shrinking, uneven thickness, etc., of the web, enabling high accuracy slitting.

