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Find the *Keyence LV-51M* at our website: ***Click HERE***



# LV-51M

Amplifier Unit, Main Unit, NPN

CE

**[Discontinued model]**
This model has been discontinued.

**Recommended Replaceable Products**

- Multi-Purpose Digital Laser Sensor
  LV-N series

**To contact us:**

1-888-539-3623

## SPECIFICATIONS

| | | |
|---|---|---|
| Model | | LV-51M |
| Type | | NPN output |
| Main unit/expansion unit | | Main unit |
| Control output | | NPN open-collector x 2 channels, 40 VDC max., 100 mA, max. residual voltage (1.0 V max.) |
| Response speed | | FINE : 80 µs , TURBO : 500 µs , SUPER : 4 ms |
| Monitor output | | 1 to 4 V for 1 to 4 V voltage output and FINE display 0 - 3000, load resistance 20 kΩ min. |
| Number of interference preventive units | | FINE : No device (0) , TURBO : 2 units , SUPER : 4 units[*1] |
| Detection mode | | Light intensity distinction / edge detection |
| Protection circuit | | Reversed polarity protection, over-current protection, surge absorber |
| Unit expansion | | Up to 7 additional expansion units can be installed (8 units including the main unit), |
| Rating | Power voltage | 12 to 24 VDC ripple (P-P) 10% max. |
| | Power consumption | 1.5 W max. (125 mA max. for 12 V, 62.5 mA max. for 24 V) |
| Environmental resistance | Ambient temperature | 35 to 85 % RH (No condensation) |
| Environmental resistance | Operating ambient humidity | -10 to 55°C <color>14 to 131°F</color>, No freezingWhen several units are connected, the ambient temperature requirement varies depending on the total number of units connected.<br>When 2 to 5 units: -10 to +50°C <color>14 to 122°F</color><br>When 6 to 7 units: -10 to +45°C <color>14 to 113°F</color><br>When connecting several units, be sure to mount the units to a metallic DIN rail. Make sure that the output current does not exceed 20 mA.</foot> |
| Material | Main unit | Polycarbonate |
| | Case | |
| Weight | | Approx 120 g |

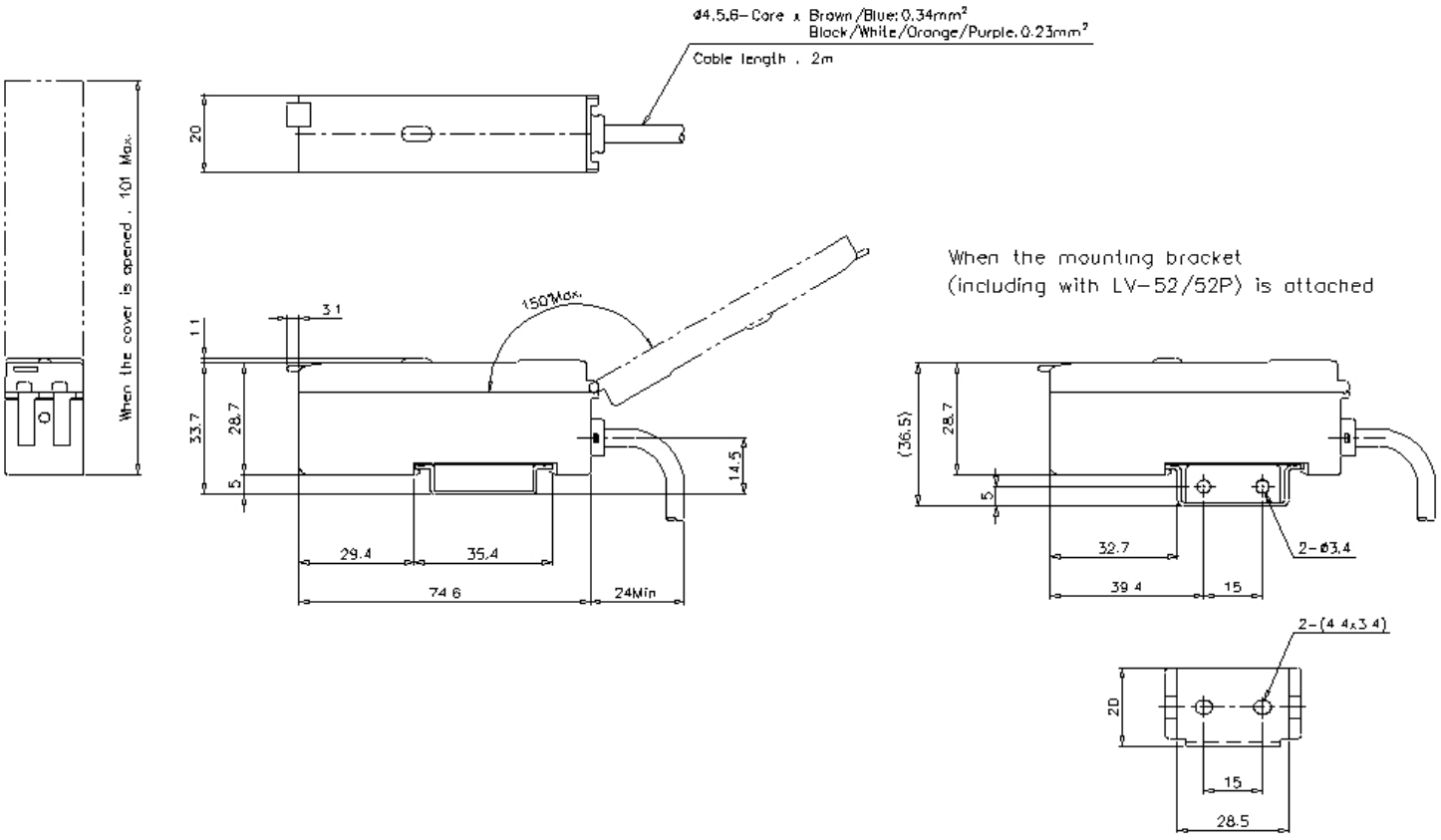
[*1] To connect several units they must be mounted on a METAL DIN rail. Ensure that the output current is 20 mA max. With several units connected, the allowable ambient temperature range varies as follows :
When 2 to 5 expansion units are additionally installed : -10 to +50ºC (14 to 122ºF).
When 6 or 7 expansion units are additionally installed : -10 to +45ºC (14 to 113ºF).



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## Dimensions

LV-51M/51MP

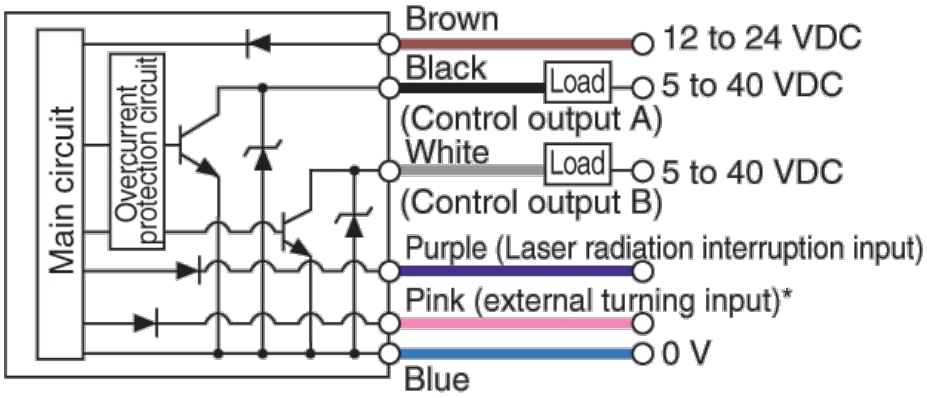





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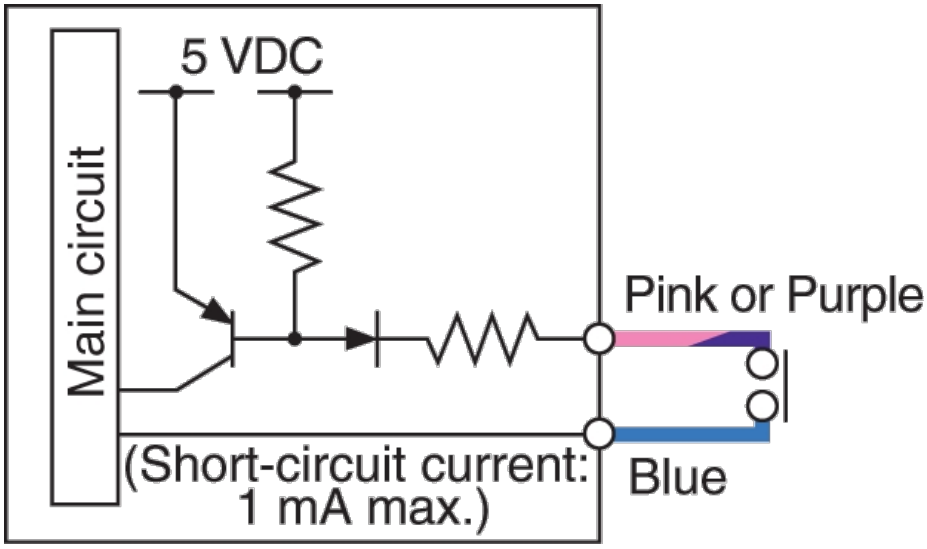
## I/O Circuit Connection diagram

**NPN**

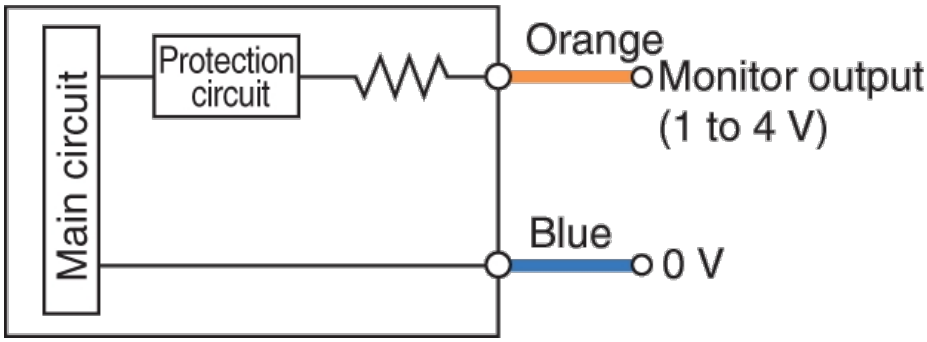



* Orange (monitor output) only for LV-51M

**Laser radiation interruption (main unit only)**
**External calibration input**
**NPN**




**Analogue output circuit for monitoring**
**(LV-51M/51MP only)**






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