BD

BD96
Interpolator for Laserscale™

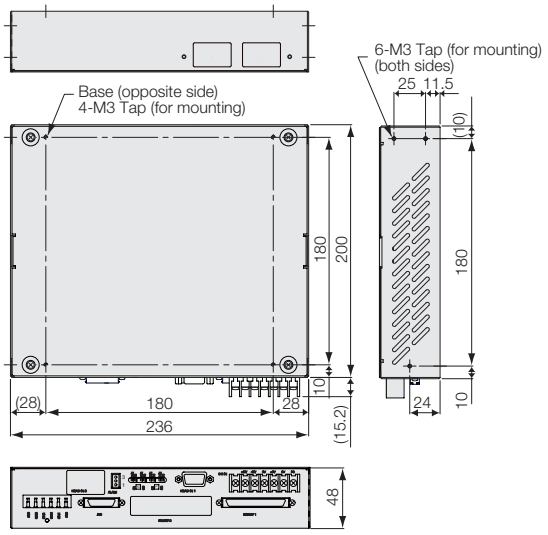
Maximum resolution of 17pm when combined with the BS series.
Supporting various serial and binary outputs.

- Maximum resolution :
  0.4nm (When connected with BL series)
  31pm (When connected with BH series)
  17pm (When connected with BS series)
- High response speed :
  1,100mm/s (When connected with BL series)
  700mm/s (When connected with BH series)
  400mm/s (When connected with BS series)
- Various serial or binary outputs
- Includes automatic signal compensation
- AB quadrature output
  (standard : 4 divisions) (binary output axis 1 or 2 type)
  BS series : 34.5nm, BH series : 62.5nm, BL series : 100nm
- Maximum no. of divisions : 8000 (When connected with BS and BH series)

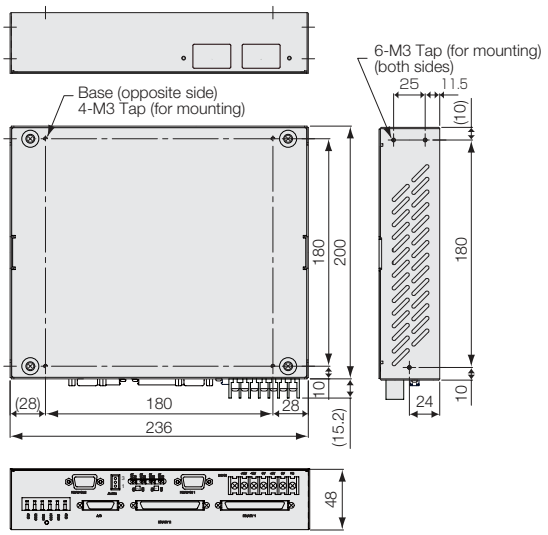
* Please inquire about various specifications, such as the number of divisions.

External Dimensions

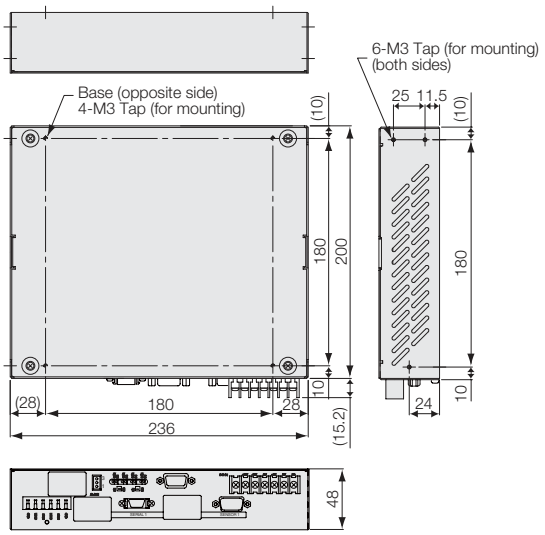
●BD96-B1



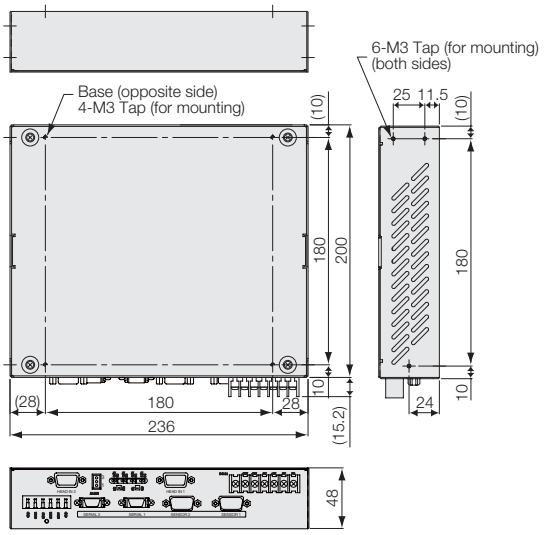
●BD96-B2



●BD96-Y1/M1



●BD96-Y2/M2



Unit: mm

*2 External dimensions of the 1- and 2-axis are identical.

Main specifications

Model	BD 96
MAX. resolution	0.4nm (When connected with BL series),0.03125nm (When connected with BH series),0.017nm (When connected with BS series)
Response speed	400mm/s (When connected with BS series),700mm/s (When connected with BH series),1,100mm/s (When connected with BL series)
MAX. division	025 : 256, 051 : 512, 040 : 400, 050 : 500, 100 : 1000, 200 : 2000, 400 : 4000, 800 : 8000
Alarm	When exceeding the maximum response speed or when the laser signal level is too low (disconnection); LED lights up
Input signal compensation	DC offset, amplitude, phase
Power supply	DC +5V±5% DC +12V±5% DC -12V±5%
Current Consumption (When scale is connected)	DC +5V : 0.4A DC +12V : 0.7A DC -12V : 0.5A (2 axes type)
Operating temperature range	0 to +40℃
Storage temperature range	-10 to +50℃
Dimensions	236 (W) x 215.2 (D) x 48 (H)mm
Weight	Approx. 1.6kg

BD96-☆△***□C

- Shape C: Case type
- Scale type S: BS series H: BH series L: BL series
- Division 025: 256 divisions 051: 512 divisions 040: 400 divisions 050: 500 divisions 100: 1000 divisions 200: 2000 divisions 400: 4000 divisions 800: 8000 divisions
- Axis type 1: 1 axis 2: 2 axes J: Supports long scales of the BLseries (Max. 512 divisions)
- Output mode B: Binary (Axis type 1 or J : 40 bits, 2 : 20bits) Y: Yaskawa Electric serial M: Mitsubishi Electric serial F: FANUC*2 serial

*2 Special model