

LG

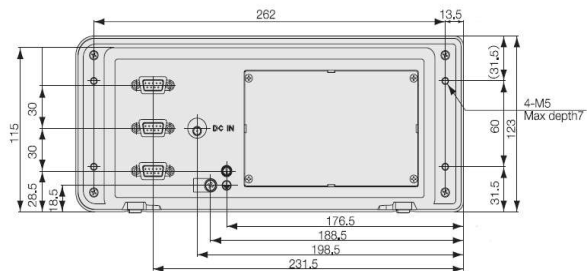
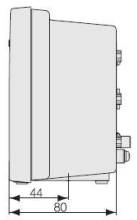
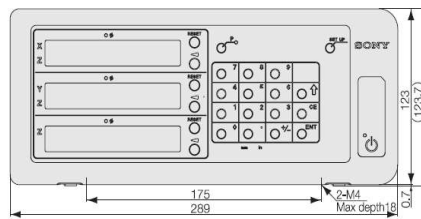
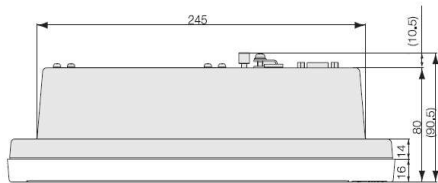
LG20

Counter of standard function.

- Selectable display resolution
- Scale input signal : A/B quadrature signal
- Machine Error Compensation
- Data Storage
- Preset / Recall
- Flicker Control



Dimensions



Unit : mm/inch

Specifications

| Model | LG20-1 | LG20-2 | LG20-3 |
|---------------------------------|--|--------|--------|
| Display axes | 1-axis | 2-axis | 3-axis |
| Display | 7 digits and minus display, Color amber | | |
| Connectable measuring unit | GB-ER, SJ300, SJ700A, PL20C Series (Direct), unit DG-B (Requires a conversion adaptor which is sold separately.) | | |
| Measuring unit input resolution | 0.1 μm, 0.5 μm, 1 μm, 2 μm, 5 μm, 10 μm, 20 μm, 25 μm, 50 μm, 100 μm | | |
| Display resolution | Measuring unit input resolution or higher and diameter display | | |
| Input signal | A/B quadrature signal (Conforms to EIA-422.) | | |
| Minimum input phase difference | 100 ns | | |
| Quantization error | ±1 count | | |
| Alarm display | Measuring unit disconnected, Excess speed, Maximum display amount exceeded, Power failure, Error in stored data | | |
| Preset | It is possible to store/recall 3 kinds of numbers. | | |
| Data storage | The value displayed before the power was turned off and setting values are stored | | |
| Linear error compensation | A fixed compensation is applied to the measuring unit's count value. Compensation amount: ±600 μm/m | | |
| Sleep | The display is turned off when no operations are made for a preset time. (The time can be set.) | | |
| Power supply | DC 12 V Rating 0.75 A Max. 1A AC 100 to 240 V ±10% (When using AC adaptor which is sold separately.) | | |
| Power consumption | Max. 32 VA (connected at AC power supply) | | |
| Operating temperature range | 0 to 40°C (no condensation) | | |
| Storage temperature range | -20 to 60°C (no condensation) | | |
| Mass | Approx. 1.5 kg | | |

LH

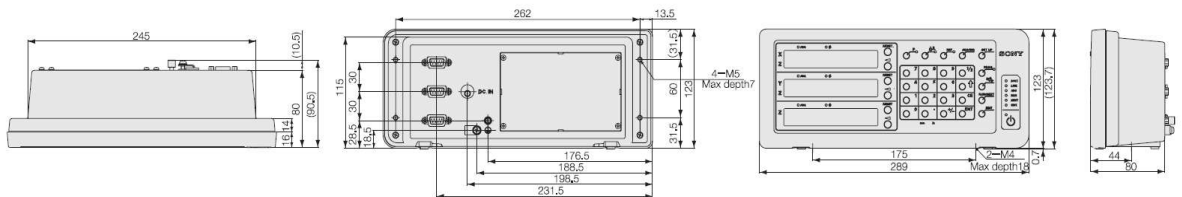
LH70/71 SERIES

High performance counter flexibly adapting to the diverse field uses with its compact size

- Counter for Milling machine (LH70/71) and Lathe(LH71-3)
- Display Resolution Switching
- Machine error compensation
- Data Storage, ● Reset/Preset/Restart
- Detecting Reference Point of Measurement Unit
- Program function ● Multi datum point ● Scaling
- Milling function (Bolt hole circle / Easy R cutting / Line hole)
- Lathe function (Tool coordinating / Adding function)



Dimensions



Unit : mm/inch

Specifications

Common Specifications

| Model | LH71-1 | LH71-2 | LH71-3 |
|---------------------------------|--|--------|--------|
| Display | 7 digits and minus display, Color amber | | |
| Connectable measuring unit | GB-ER, SJ300 series, SJ700A, PL20C series (Direct) DG-B (Necessary to use the conversion adaptor which is sold separately.) | | |
| Measuring unit input resolution | Standard: 0.1 μm, 0.5 μm, 1 μm, 5 μm, 10 μm, 1 s, 10 s, 1 min, 10 min Expanded: 100 μm, 50 μm, 25 μm, 20 μm, 2 μm, 0.05 μm and 1 degree can be added. | | |
| Display resolution | Measuring unit input resolution or higher and diameter display (except for angle display) | | |
| Input signal | A/B quadrature signal, Z signal (Conforms to EIA-422.) | | |
| Minimum input phase difference | 100 ns | | |
| Quantization error | ±1 count | | |
| Alarm display | Measuring unit disconnected, Excess speed, Maximum display amount exceeded, Power failure, Error in stored data | | |
| Reset | Resettable by key switch | | |
| Preset | It is possible to store/call 3 kinds of numbers. | | |
| Reference point detection | The reference point of the measuring unit can be detected, and the datum point can be relocated (during connection of measuring unit with a reference point) | | |
| Data storage | The value displayed before the power was turned off and setting values are stored | | |
| Linear error compensation | A fixed compensation is applied to the measuring unit's count value. Compensation amount Standard: ±600 μm/m (Expanded: ±1000 μm/m) | | |
| Segmented error compensation | The movement range of the measuring unit with a reference point can be divided into a maximum of 32 sections, and error compensation is performed for each of these sections. Compensation amount: ±600 μm (at each section)(LH71 only) | | |
| Scaling | Scaling factor: 0.100000 to 9.999999(LH71 only) | | |
| Program | Machining coordinates can be programmed (number of program steps: 850 max.) 1. Manual programming by key switch 2. Automatic programming by playback 3. Mirror image during program execution 4. A canned cycle (bolt hole, line hole, simple R cutting) can be inserted in the program. (LH71 only) | | |
| Angle display | Can be displayed as an angle value when the Digiruler is pasted to the arc surface, and the diameter and Digiruler resolution are entered | | |
| Sleep | The display is turned off when no operations are made for a preset time. (The time can be set.) | | |
| Power supply | DC 12 V Rating 0.75 A Max, 1 A AC 100 to 240 V ±10% (When using AC adaptor which is sold separately.) | | |
| Power consumption | Max. 32 VA (connected at AC power supply) | | |
| Operating temperature range | 0 to 40°C (no condensation) | | |
| Storage temperature range | -20 to 60°C (no condensation) | | |
| Mass | Approx. 1.5 kg | | |

When the LH70/71 general-purpose applications or milling machine function are selected (General setting in the model type selection mode of the basic settings)

| Model | LH70-1 | LH71-1 | LH70-2 | LH71-2 | LH70-3 | LH71-3 |
|-------------------|--------|--------|---|--------|--------|--------|
| Display | 1-axis | | 2-axis | | 3-axis | |
| Multi datum point | 10 | 150 | 10 | 150 | 10 | 150 |
| Bolt hole circle | — | | Displays coordinates for opening equidistant holes along the perimeter of a designated diameter | | | |
| Simple R cutting | — | | Display coordinates for simple R cutting | | | |
| Line hole | — | | Displays coordinates for opening equidistant holes along a designated straight line(LH71 only) | | | |

When the LH70/71 lathe function is selected (Lathe setting in the model type selection mode of the basic settings)

| Model | LH70-3 | LH71-3 |
|-------------------------------|--|--------|
| Display axes | 2-axis display (2-axis or 3-axis input) | |
| Tool offset | 12 | 99 |
| Measuring unit input addition | 2-axis addition display is available | |
| Display hold | The displayed value can be held and the tool coordinate entered. | |

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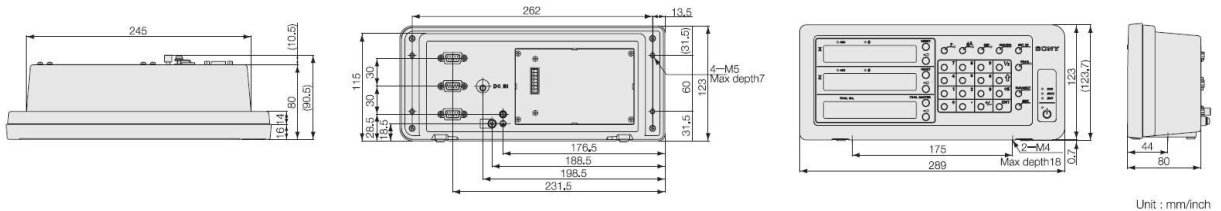
LH72

High performance counter for lathes flexibly adapting to diverse field uses with its compact size



- Counter for Lathe(LH72-3)
- Display Resolution Switching
- Machine error compensation
- Data Storage.
- Reset/Preset/Restart
- Detecting Reference Point of Measurement Unit
- Program function ● Scaling
- Lathe function (Tool coordinating / Adding function)

Dimensions



Specifications

Common Specifications

| Model | LH72-3 |
|---------------------------------|---|
| Display | 7 digits and minus display, Color amber |
| Connectable measuring unit | GB-ER, S.J300 series, SJ700A, PL20C series (Direct) DG-B (Necessary to use the conversion adaptor which is sold separately.) |
| Measuring unit input resolution | Standard: 0.1 μm, 0.5 μm, 1 μm, 5 μm, 10 μm, 1 s, 10 s, 1 min, 10 min Expanded: 100 μm, 50 μm, 25 μm, 20 μm, 2 μm, 0.05 μm and 1 degree can be added. |
| Display resolution | Measuring unit input resolution or higher and diameter display (except for angle display) |
| Input signal | A/B quadrature signal, Z signal (Conforms to EIA-422.) |
| Minimum input phase difference | 100 ns |
| Quantization error | ±1 count |
| Alarm display | Measuring unit disconnected, Excess speed, Maximum display amount exceeded, Power failure, Error in stored data |
| Reset | Resettable by key switch or remote reset. |
| Preset | It is possible to store/recall 3 kinds of numbers. |
| Reference point detection | The reference point of the measuring unit can be detected, and the datum point can be relocated (during connection of measuring unit with a reference point) |
| Data storage | The value displayed before the power was turned off and setting values are stored |
| Linear error compensation | A fixed compensation is applied to the measuring unit's count value, Compensation amount Standard: ±600 um/m (Expanded: ±1000 um/m) |
| Segmented error compensation | The movement range of the measuring unit with a reference point can be divided into a maximum of 32 sections, and error compensation is performed for each of these sections, Compensation amount: ±600 um (at each section) |
| Scaling | Scaling factor: 0.100000 to 9.999999 |
| Program | Machining coordinates can be programmed (number of program steps: 850 max.) 1. Manual programming by key switch 2. Automatic programming by playback 3. Mirror image during program execution 4. A canned cycle (bolt hole, line hole, simple R cutting) can be inserted in the program. (LH71A only) |
| Angle display | Can be displayed as an angle value when the Digiruler is pasted to the arc surface, and the diameter and Digiruler resolution are entered |
| Sleep | The display is turned off when no operations are made for a preset time, (The time can be set.) |
| Power supply | DC 12 V Rating 0.75 A Max. 1 A AC 100 to 240 V ±10% (When using AC adaptor which is sold separately.) |
| Power consumption | Max. 32 VA (connected at AC power supply) |
| Operating temperature range | 0 to 40°C (no condensation) |
| Storage temperature range | -20 to 60°C (no condensation) |
| Mass | Approx. 1.5 kg |

When the lathe function is selected (Lathe setting in the model type selection mode of the basic settings)

| Model | LH72-3 |
|-------------------------------|--|
| Display axes | 2-axis display (2-axis or 3-axis input) |
| Tool offset | 99 |
| Measuring unit input addition | 2-axis addition display is available |
| Display hold | The displayed value can be held and the tool coordinate entered. |

LY

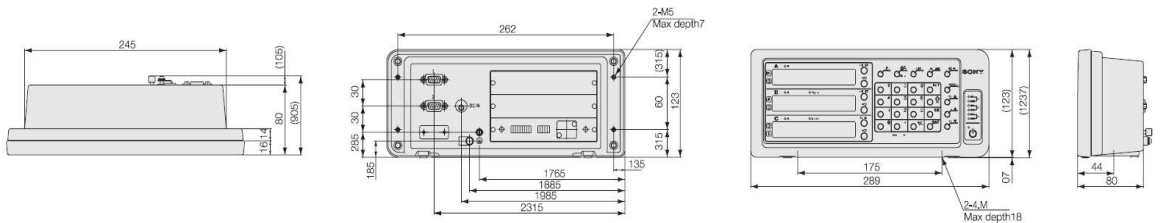
LY71 SERIES

For measurements and control in diverse field uses.
The required output board can be extended.

- Various outputs are enabled by mounting extension boards
 - BCD Output (Option)
 - Comparator Function: Relay / Open-collector (Option)
- Peak Hold Function Convenient for Statistical Measurement
- Convenient External Input Functions for Automatic Measurement
- Display Resolution Switching ● Data Storage.
- Reset/Preset/Restart ● Detecting Reference Point of Measurement Unit
- Scaling ● Flicker Control



Dimensions



Specifications

| Model | LY71 |
|---------------------------------|---|
| Display | 7 digits and minus display, Color amber |
| Number of input shafts | 1 or 2 axes (2-axis add function available; addition only is displayed when adding) |
| Display data | Current (1st axis, 2nd axis, addition axis), maximum, minimum and peak-to-peak values |
| Measuring unit input resolution | Standard : 0.1 μ m, 0.5 μ m, 1 μ m, 5 μ m, 10 μ m, 1 s, 10 s, 1 min, 10 min Expanded : 100 μ m, 50 μ m, 25 μ m, 20 μ m, 2 μ m, 0.05 μ m, and 1 can be added. |
| Input signal | A/B quadrature signal, Z signal (Conforms to EIA-422) |
| Display resolution | Measuring unit input resolution or higher and supported inch units Inch: Basic : 0.000005", 0.00001", 0.00005", 0.0002", 0.0005" Inch: Expanded: 0.000002", 0.0001", 0.001", 0.002", 0.005" |
| Minimum input phase difference | 100 ns |
| Alarm display | Measuring unit disconnected, Excess speed, Maximum display amount exceeded, Power failure, Error in stored data |
| Reset | Current value reset, Alarm cancel |
| Restart | Restart of peak value calculation for each axis/all axes |
| Preset | It is possible to store/edit up to three values for each axis. |
| Master calibration function | The master calibration value is relocated when going past the reference calibration reference point point after the power is turned on. |
| Datum point operations | It is possible to store/edit one value for each axis (when not using the point master calibration function). |
| Reference point operations | It is possible to store/edit one value for each axis (when not using the point operations master calibration function). |
| Hold function | Selectable from latch and pause Latch : Display held while latched (Display hold) Pause : Peak calculation stopped while paused (Peak calculation hold) |
| Linear compensation | *A fixed compensation amount is applied to the measuring unit's count value. Compensation amount Standard: ± 600 μ m/m (Expanded: ± 1000 μ m/m) |
| Scaling | Scaling factor: 0.100000 to 9.999999 |
| Power supply | DC 12 V Rating 0.75 A Max, 1 A |
| Power consumption | AC 100 V - 240 V ± 10 % (When using the AC adaptor PSS-21 (option)) Max. 32 VA (connected to AC power supply) |
| Operating temperature | 0 to 40 $^{\circ}$ C (no condensation) |
| Storage temperature | -20 to 60 $^{\circ}$ C (no condensation) |
| Mass | Approx. 1.5 kg |

LH

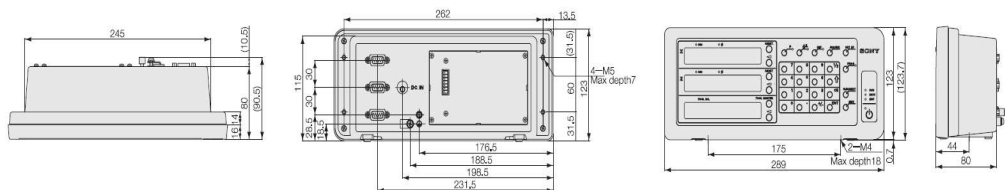
LH72

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- Counter for Lathe(LH72-3)
- Display Resolution Switching
- Machine error compensation
- Data Storage.
- Reset/Preset/Restart
- Detecting Reference Point of Measurement Unit
- Program function ● Scaling
- Lathe function (Tool coordinatng / Adding function)



Dimensions



Unit : mm/inch

Specifications

Common Specifications

| Model | LH72-3 |
|---------------------------------|---|
| Display | 7 digits and minus display, Color amber |
| Connectable measuring unit | GB-ER, SJ300 series, SJ700A, PL20C series (Direct) DG-B (Necessary to use the conversion adaptor which is sold separately.) |
| Measuring unit input resolution | Standard: 0.1 μ m, 0.5 μ m, 1 μ m, 5 μ m, 10 μ m, 1 s, 10 s, 1 min, 10 min Expanded: 100 μ m, 50 μ m, 25 μ m, 20 μ m, 2 μ m, 0.05 μ m and 1 degree can be added. |
| Display resolution | Measuring unit input resolution or higher and diameter display (except for angle display) |
| Input signal | A/B quadrature signal, Z signal (Conforms to EIA-422.) |
| Minimum input phase difference | 100 ns |
| Quantization error | ± 1 count |
| Alarm display | Measuring unit disconnected, Excess speed, Maximum display amount exceeded, Power failure, Error in stored data |
| Reset | Resettable by key switch or remote reset. |
| Preset | It is possible to store/recall 3 kinds of numbers. |
| Reference point detection | The reference point of the measuring unit can be detected, and the datum point can be relocated (during connection of measuring unit with a reference point) |
| Data storage | The value displayed before the power was turned off and setting values are stored |
| Linear error compensation | A fixed compensation is applied to the measuring unit's count value. Compensation amount Standard: ± 600 μ m/m (Expanded: ± 1000 μ m/m) |
| Segmented error compensation | The movement range of the measuring unit with a reference point can be divided into a maximum of 32 sections, and error compensation is performed for each of these sections. Compensation amount: ± 600 μ m (at each section) |
| Scaling | Scaling factor: 0.100000 to 9.999999 |
| Program | Machining coordinates can be programmed (number of program steps: 850 max.) 1. Manual programming by key switch 2. Automatic programming by playback 3. Mirror image during program execution 4. A canned cycle (bolt hole, line hole, simple R cutting) can be inserted in the program. (LH71A only) |
| Angle display | Can be displayed as an angle value when the Digiruler is pasted to the arc surface, and the diameter and Digiruler resolution are entered |
| Sleep | The display is turned off when no operations are made for a preset time. (The time can be set.) |
| Power supply | DC 12 V Rating 0.75 A Max. 1 A AC 100 to 240 V $\pm 10\%$ (When using AC adaptor which is sold separately.) |
| Power consumption | Max. 32 VA (connected at AC power supply) |
| Operating temperature range | 0 to 40°C (no condensation) |
| Storage temperature range | -20 to 60°C (no condensation) |
| Mass | Approx. 1.5 kg |

When the lathe function is selected (Lathe setting in the model type selection mode of the basic settings)

| Model | LH72-3 |
|-------------------------------|--|
| Display axes | 2-axis display (2-axis or 3-axis input) |
| Tool offset | 99 |
| Measuring unit input addition | 2-axis addition display is available |
| Display hold | The displayed value can be held and the tool coordinate entered. |

Diese Daten können jederzeit ohne Vorankündigung geändert werden

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