

## XBF-LD02S Load Cell Input Module

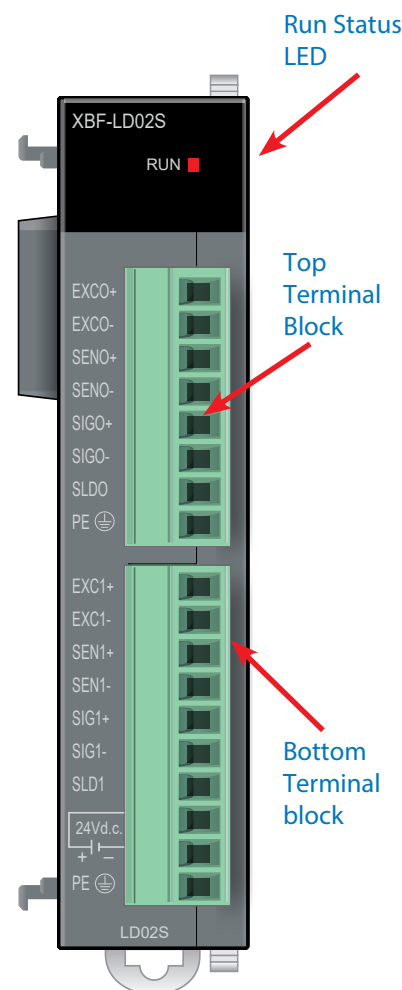
XBF-LD02S load cell input module gives the XGB PLC the capability to work with any weighing application that uses load cells. This is the only AutomationDirect offered PLC with load cell capability.

| Part Number      | Price    | Classification         | Description                                                                                                                                                                                                      | Drawing             |
|------------------|----------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>XBF-LD02S</b> | \$259.00 | Load Cell Input Module | LS Electric XGB load cell input module, 2-channel, voltage, 15-bit resolution, input voltage signal range(s) of 0-6 mV/VDC. For use with 5 VDC four- or six-wire load cells. Removable terminal blocks included. | <a href="#">PDF</a> |

| General Specifications       |                               | XBF-LD02S                                                                                                         |
|------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Input Channel                |                               | 2                                                                                                                 |
| Load Cell Input Voltage      |                               | 5VDC $\pm$ 5% (8 per 350 $\Omega$ load cell channel)                                                              |
| Load Cell Type               |                               | Four-wire or six-wire                                                                                             |
| Resolution                   |                               | 1/40000                                                                                                           |
| Analog Input Range           |                               | 0.0–30.0 mV <sup>1</sup> (Load cell 6mV/V)                                                                        |
| Load Cell Output Sensitivity |                               | 0.125 $\mu$ V (when the rated output of the load cell is 0.0–1.0 mV/V)                                            |
| Input Accuracy               |                               | $\pm$ 0.01% or less (nonlinear accuracy, 25°C)<br>Zero Drift: $\pm$ 0.25 $\mu$ V/°C<br>Gain Drift: $\pm$ 15ppm/°C |
| Sampling Cycle (per channel) |                               | 2.5 ms, 5ms (default), 10ms, 20ms                                                                                 |
| Insulation                   | Classification                | Input terminal and internal circuits                                                                              |
|                              | Insulation Method             | Photocoupler                                                                                                      |
|                              | Insulation Voltage Resistance | 550VAC, 50/60Hz, 1 minute<br>Leakage 10mA or less                                                                 |
|                              | Insulation Resistance         | 500VDC, 10M $\Omega$ or more                                                                                      |
| Warm-up Time                 |                               | 30 minutes or more <sup>2</sup>                                                                                   |
| Input ConnectorHi            |                               | 8-pin connector (CH0), 10-pin connector (CH1)                                                                     |
| I/O Occupation Points        |                               | Fixed type: 64 points                                                                                             |
| Maximum Number per CPU       |                               | 7                                                                                                                 |
| Power Supply                 |                               | Internal: 5VDC<br>External: 20.4–28.8 VDC                                                                         |
| Power Consumption            | Internal 5VDC                 | 110mA                                                                                                             |
|                              | External 24VDC                | 280mA                                                                                                             |
| Weight                       |                               | 68g                                                                                                               |

1 - Analog input range: For the tensile strength and type load cell, the input range is  $\pm$ 30mV

2 - Warm-up time: Calibration or measurement must begin 30 minutes after the power supply is applied.





# XGB Analog Modules

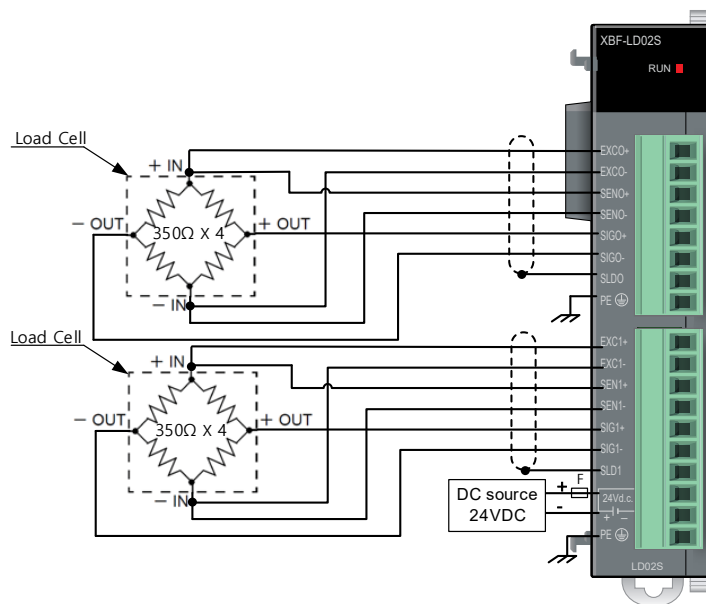
## XBF-LD02S Load Cell Input Module Functions

| Item                     | Function                    |                                            | Details                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|-----------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Load Cell Input Function | Calibration Function        | 2-point Calibration Function               | Before measuring the actual weight, it calibrates the measurement range of the weight system.                                                                                                                                                                                                                                                          |
|                          |                             | 1-point Calibration Function               | After 2-point calibration, calibrates only the zero point depending on changes in the surrounding environment such as temperature.                                                                                                                                                                                                                     |
|                          |                             | Equivalent Circuit calibration Function    | Perform calibration when using environment that is difficult to calibrate using actual load or tension / compression type load cell.                                                                                                                                                                                                                   |
|                          | Input Processing            | Moving Average Function                    | The average processing method that reflects the diving the difference (between the present value and the previous moving average value) by 2 <sup>n</sup> .                                                                                                                                                                                            |
|                          |                             | Moving/Count Average Function              | It accumulates the moving averages of a designated channel in accordance with the set counts, and displays the average value of the sum as digital data.                                                                                                                                                                                               |
|                          |                             | Moving/Time Average Function               | It accumulates the moving averages of a designated channel for the set amount of time, and displays the average value of the sum as digital data.                                                                                                                                                                                                      |
|                          |                             | Stable Status Determination Function       | It determines whether the status of the total weight value is safe.                                                                                                                                                                                                                                                                                    |
|                          | Zero Processing             | Zero Tracking Function                     | It adjusts zero output values in accordance with changes of the surrounding environment, such as temperature change.                                                                                                                                                                                                                                   |
|                          |                             | Zero Setting, Reset Function               | It temporarily adjusts zero output values when 0 is not output even after 2-point calibration due to changes of the surrounding environment such as gathering of foreign matters around the pallet caused by using the load cell for a long time. When using a container (Tare), you can also use this function to remove the weight of the container. |
|                          | Alarm Function              | HL Alarm Function                          | Processes alarm by defining the HH, H, L, LL of inputs.                                                                                                                                                                                                                                                                                                |
|                          |                             | Flag Display Function                      | It displays (L) L Status Flag.<br>It displays (L) L Status Flag.                                                                                                                                                                                                                                                                                       |
|                          | Output Maintenance Function | Maximum Minimum Value Maintenance Function | It displays the maximum / minimum values of the total weight measured while running the input channel.                                                                                                                                                                                                                                                 |
|                          |                             | Output Value Maintenance Function          | It temporarily maintains the output value of the total weight. It is executed only when the output status request flag is turned on.                                                                                                                                                                                                                   |
|                          | Auxiliary Functions         | Free Fall Calibration Function             | It automatically calibrates free fall values.                                                                                                                                                                                                                                                                                                          |
|                          | Backup                      | Zero-point Backup Setting                  | Function to measure the weight on the weighing pan when PLC power is turned on or display it as zero automatically.                                                                                                                                                                                                                                    |

## XBF-LD02S Load Cell Input Module Wiring

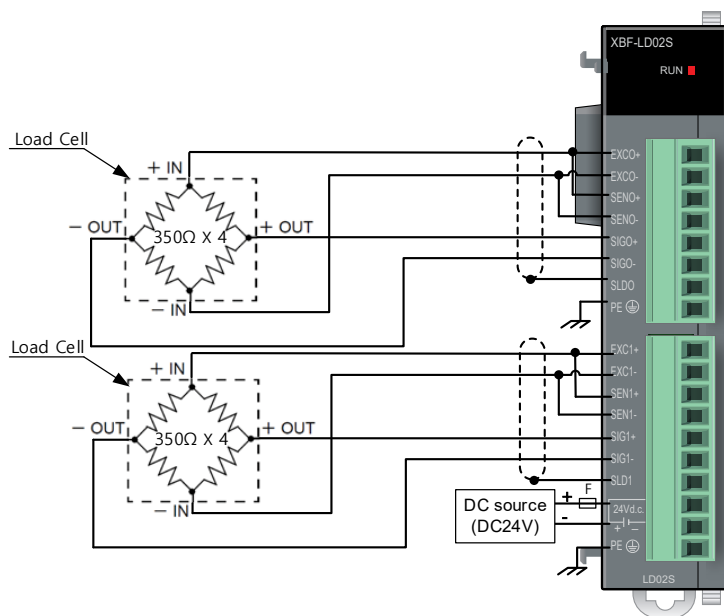
| Terminal Image | Terminal Name | Function                     | Description                                                                |
|----------------|---------------|------------------------------|----------------------------------------------------------------------------|
|                | <b>EXC0+</b>  | Load cell applied voltage(+) | Voltage supplied to the load cell in the module(5VDC)(CH0)                 |
|                | <b>EXC0-</b>  | Load cell applied voltage(-) |                                                                            |
|                | <b>SEN0+</b>  | Load cell sensing input(+)   | Signal for measuring the voltage drop in EXC0+ side of the load cell cable |
|                | <b>SEN0-</b>  | Load cell sensing input(-)   | Signal for measuring the voltage drop in EXC0- side of the load cell cable |
|                | <b>SIG0+</b>  | Load cell signal input(+)    | Load cell output voltage(CH0)                                              |
|                | <b>SIG0-</b>  | Load cell signal input(-)    |                                                                            |
|                | <b>SLD0</b>   | Shield                       | Connect shield wires of the load cell cable(CH0)                           |
|                | <b>PE</b>     | Grounding                    | External grounding (CH0)                                                   |
|                | <b>EXC1+</b>  | Load cell applied voltage(+) | Voltage supplied to the load cell in the module(5VDC)(CH1)                 |
|                | <b>EXC1-</b>  | Load cell applied voltage(-) |                                                                            |
|                | <b>SEN1+</b>  | Load cell sensing input(+)   | Signal for measuring the voltage drop in EXC1+ side of the load cell cable |
|                | <b>SEN1-</b>  | Load cell sensing input(-)   | Signal for measuring the voltage drop in EXC1- side of the load cell cable |
|                | <b>SIG1+</b>  | Load cell signal input(+)    | Load cell output voltage(CH1)                                              |
|                | <b>SIG1-</b>  | Load cell signal input(-)    |                                                                            |
|                | <b>SLD1</b>   | Shield                       | Connect shield wires of the load cell cable(CH1)                           |
|                | <b>24VDC</b>  | 24VDC power +                | External 24VDC power supply (24V)                                          |
|                | <b>GND</b>    | 24VDC power ground           | External 24VDC power supply ground (0VDC)                                  |
|                | <b>PE</b>     | Grounding                    | External grounding (CH1)                                                   |

### 6 Lines Type Load Cell

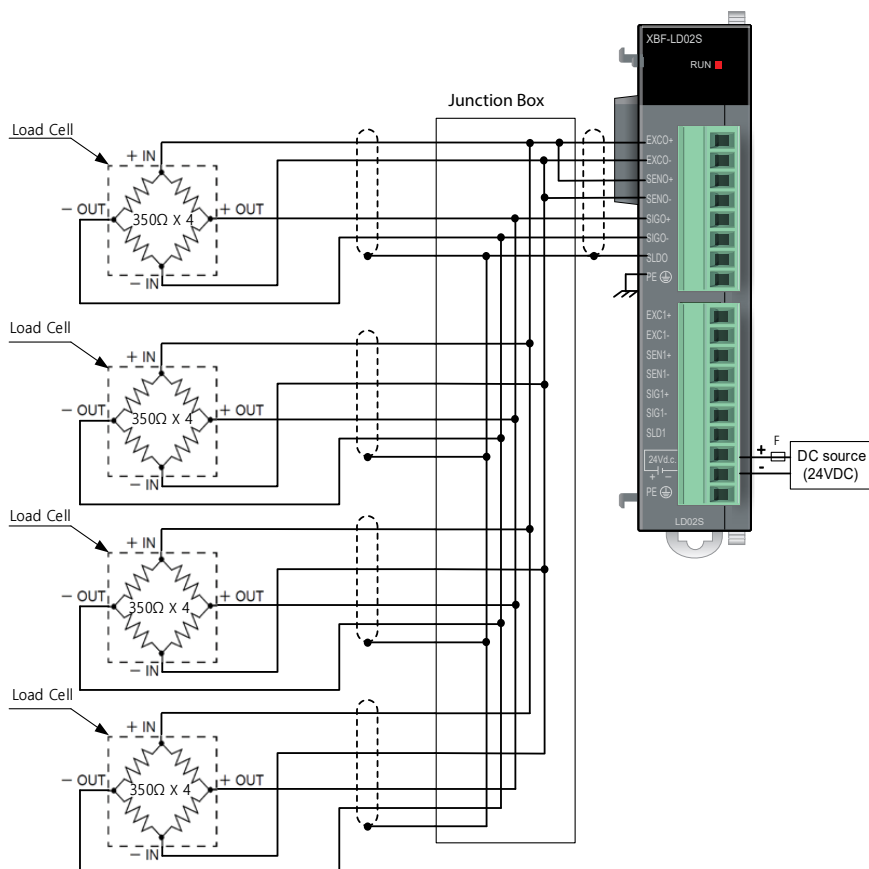


## XBF-LD02S Load Cell Input Module Wiring, *continued*

### 4 Lines Type Load Cell



### Load Cell Parallel Connection





# XGB Analog Modules

## XBF-LD02S Load Cell Input Module Configuration

Follow the Quick start video to learn how to Register and Configure any Analog Module:

### Analog Module Setup

#### Direct Variables

All XGB series analog modules are assigned 32 words in the "U" memory area based on the slot number assignment. (%UW0.z.0 - %UW0.z.31, z = slot number). The actual memory address used within the 32 word block are specific to each module. See the table below for Direct Variable assignments.

For Direct Variable nomenclature explanation, see [Direct Variable User Programming Memory](#).

#### Symbolic Variables

Symbolic variables for the analog module can be automatically created in XG5000 software by using the top MENU bar: Edit > Register Module Variable Comments.

Symbolic variables and direct variables for XBF-LD02S are as follows (z refers to module slot number (2 to 8)).

| Type | Scope          | Variable<br>(Symbolic) | Address<br>(Direct Variable Alias) | Data Type | Comment                                                   |
|------|----------------|------------------------|------------------------------------|-----------|-----------------------------------------------------------|
| Tag  | GlobalVariable | _0z_CH0_CAL1REQ        | %UX0.z.464                         | BOOL      | Loadcell Input Module: CH0 1-Point Calibration Request    |
| Tag  | GlobalVariable | _0z_CH0_CAL2REQ        | %UX0.z.466                         | BOOL      | Loadcell Input Module: CH0 2-Point Calibration Request    |
| Tag  | GlobalVariable | _0z_CH0_CALEND         | %UX0.z.52                          | BOOL      | Loadcell Input Module: CH0 Save Complete Flag             |
| Tag  | GlobalVariable | _0z_CH0_CALMOD         | %UX0.z.24                          | BOOL      | Loadcell Input Module: CH0 Calibration Status             |
| Tag  | GlobalVariable | _0z_CH0_CALSTORE       | %UX0.z.484                         | BOOL      | Loadcell Input Module: CH0 Save Request                   |
| Tag  | GlobalVariable | _0z_CH0_COMPLETE       | %UX0.z.36                          | BOOL      | Loadcell Input Module: CH0 Weighing Complete Status       |
| Tag  | GlobalVariable | _0z_CH0_CUR_FFVAL      | %UW0.z.26                          | WORD      | Loadcell Input Module: CH0 Free Fall Data                 |
| Tag  | GlobalVariable | _0z_CH0_EQUCALEND      | %UX0.z.54                          | BOOL      | Loadcell Input Module: CH0 Equivalent Calibration Status  |
| Tag  | GlobalVariable | _0z_CH0_EQUCALREQ      | %UX0.z.468                         | BOOL      | Loadcell Input Module: CH0 Equivalent Calibration Request |
| Tag  | GlobalVariable | _0z_CH0_ERR            | %UX0.z.30                          | BOOL      | Loadcell Input Module: CH0 Error                          |
| Tag  | GlobalVariable | _0z_CH0_GRSMINUS       | %UX0.z.76                          | BOOL      | Loadcell Input Module: CH0 Gross Weight Negative Status   |
| Tag  | GlobalVariable | _0z_CH0_GWDATA         | %UD0.z.3                           | DINT      | Loadcell Input Module: CH0 Gross Weight Data              |
| Tag  | GlobalVariable | _0z_CH0_GWMAX          | %UD0.z.9                           | DWORD     | Loadcell Input Module: CH0 Gross Weight Max. Data         |
| Tag  | GlobalVariable | _0z_CH0_GWMIN          | %UD0.z.10                          | DWORD     | Loadcell Input Module: CH0 Gross Weight Min. Data         |
| Tag  | GlobalVariable | _0z_CH0_HHOORSTAT      | %UX0.z.88                          | BOOL      | Loadcell Input Module: CH0 High High Status               |
| Tag  | GlobalVariable | _0z_CH0_HOLDREQ        | %UX0.z.502                         | BOOL      | Loadcell Input Module: CH0 Output Hold Request            |
| Tag  | GlobalVariable | _0z_CH0_HOOR           | %UX0.z.80                          | BOOL      | Loadcell Input Module: CH0 Upper Alarm                    |
| Tag  | GlobalVariable | _0z_CH0_HOORSTAT       | %UX0.z.89                          | BOOL      | Loadcell Input Module: CH0 High Status                    |
| Tag  | GlobalVariable | _0z_CH0_LLOORSTAT      | %UX0.z.91                          | BOOL      | Loadcell Input Module: CH0 Low Low Status                 |
| Tag  | GlobalVariable | _0z_CH0_LOOR           | %UX0.z.82                          | BOOL      | Loadcell Input Module: CH0 Lower Alarm                    |
| Tag  | GlobalVariable | _0z_CH0_LOORSTAT       | %UX0.z.90                          | BOOL      | Loadcell Input Module: CH0 Low Status                     |
| Tag  | GlobalVariable | _0z_CH0_MAXMINREQ      | %UX0.z.504                         | BOOL      | Loadcell Input Module: CH0 Min./Max. Hold Request         |
| Tag  | GlobalVariable | _0z_CH0_MINMAXHLD      | %UX0.z.72                          | BOOL      | Loadcell Input Module: CH0 Min./Max. Hold Status          |
| Tag  | GlobalVariable | _0z_CH0_NEARZERO       | %UX0.z.74                          | BOOL      | Loadcell Input Module: CH0 Near Zero Status               |
| Tag  | GlobalVariable | _0z_CH0_NETDATA        | %UD0.z.7                           | DINT      | Loadcell Input Module: CH0 Net Weight Data                |
| Tag  | GlobalVariable | _0z_CH0_NETMINUS       | %UX0.z.78                          | BOOL      | Loadcell Input Module: CH0 Net weight Negative Status     |
| Tag  | GlobalVariable | _0z_CH0_OVER           | %UX0.z.42                          | BOOL      | Loadcell Input Module: CH0 Over Status                    |
| Tag  | GlobalVariable | _0z_CH0_RUN            | %UX0.z.16                          | BOOL      | Loadcell Input Module: CH0 Run Status                     |
| Tag  | GlobalVariable | _0z_CH0_SCALEND        | %UX0.z.50                          | BOOL      | Loadcell Input Module: CH0 Span Calibration Status        |
| Tag  | GlobalVariable | _0z_CH0_SCALREQ        | %UX0.z.482                         | BOOL      | Loadcell Input Module: CH0 Span Calibration Request       |
| Tag  | GlobalVariable | _0z_CH0_SEQREQ         | %UX0.z.506                         | BOOL      | Loadcell Input Module: CH0 Sequential Control Request     |
| Tag  | GlobalVariable | _0z_CH0_SP1            | %UX0.z.38                          | BOOL      | Loadcell Input Module: CH0 Step1 Status                   |
| Tag  | GlobalVariable | _0z_CH0_SP2            | %UX0.z.39                          | BOOL      | Loadcell Input Module: CH0 Step2 Status                   |
| Tag  | GlobalVariable | _0z_CH0_SP3            | %UX0.z.40                          | BOOL      | Loadcell Input Module: CH0 Step3 Status                   |
| Tag  | GlobalVariable | _0z_CH0_STBL           | %UX0.z.32                          | BOOL      | Loadcell Input Module: CH0 Stable Status                  |
| Tag  | GlobalVariable | _0z_CH0_TAREDATA       | %UD0.z.5                           | DWORD     | Loadcell Input Module: CH0 Tare Weight Data               |
| Tag  | GlobalVariable | _0z_CH0_TARERREQ       | %UX0.z.500                         | BOOL      | Loadcell Input Module: CH0 Tare Setting                   |
| Tag  | GlobalVariable | _0z_CH0_TARERSTREQ     | %UX0.z.508                         | BOOL      | Loadcell Input Module: CH0 Tare Release Request           |
| Tag  | GlobalVariable | _0z_CH0_TSET           | %UX0.z.68                          | BOOL      | Loadcell Input Module: CH0 Tare Setting Status            |



# XGB Analog Modules

## XBF-LD02S Load Cell Input Module Configuration, *continued*

| Type | Scope          | Variable<br>(Symbolic) | Address<br>(Direct Variable Alias) | Data Type | Comment                                                   |
|------|----------------|------------------------|------------------------------------|-----------|-----------------------------------------------------------|
| Tag  | GlobalVariable | _0z_CH0_UNDER          | %UX0.z.41                          | BOOL      | Loadcell Input Module: CH0 Lack Status                    |
| Tag  | GlobalVariable | _0z_CH0_WEIGHTHLD      | %UX0.z.70                          | BOOL      | Loadcell Input Module: CH0 Output Hold Status             |
| Tag  | GlobalVariable | _0z_CH0_ZCALEND        | %UX0.z.48                          | BOOL      | Loadcell Input Module: CH0 Zero Calibration Status        |
| Tag  | GlobalVariable | _0z_CH0_ZCALREQ        | %UX0.z.480                         | BOOL      | Loadcell Input Module: CH0 Zero Calibration Request       |
| Tag  | GlobalVariable | _0z_CH0_ZERO           | %UX0.z.34                          | BOOL      | Loadcell Input Module: CH0 Zero Status                    |
| Tag  | GlobalVariable | _0z_CH0_ZRST           | %UX0.z.66                          | BOOL      | Loadcell Input Module: CH0 Zero Reset Status              |
| Tag  | GlobalVariable | _0z_CH0_ZRSTREQ        | %UX0.z.498                         | BOOL      | Loadcell Input Module: CH0 Zero Reset request             |
| Tag  | GlobalVariable | _0z_CH0_ZSET           | %UX0.z.64                          | BOOL      | Loadcell Input Module: CH0 Zero Setting Status            |
| Tag  | GlobalVariable | _0z_CH0_ZSETREQ        | %UX0.z.496                         | BOOL      | Loadcell Input Module: CH0 Zero Setting Request           |
| Tag  | GlobalVariable | _0z_CH1_CAL1REQ        | %UX0.z.465                         | BOOL      | Loadcell Input Module: CH1 1-Point Calibration Request    |
| Tag  | GlobalVariable | _0z_CH1_CAL2REQ        | %UX0.z.467                         | BOOL      | Loadcell Input Module: CH1 2-Point Calibration Request    |
| Tag  | GlobalVariable | _0z_CH1_CALED          | %UX0.z.53                          | BOOL      | Loadcell Input Module: CH1 Save Complete Flag             |
| Tag  | GlobalVariable | _0z_CH1_CALMOD         | %UX0.z.25                          | BOOL      | Loadcell Input Module: CH1 Calibration Status             |
| Tag  | GlobalVariable | _0z_CH1_CALSTORE       | %UX0.z.485                         | BOOL      | Loadcell Input Module: CH1 Save Request                   |
| Tag  | GlobalVariable | _0z_CH1_COMPLETE       | %UX0.z.37                          | BOOL      | Loadcell Input Module: CH1 Weighing Complete Status       |
| Tag  | GlobalVariable | _0z_CH1_CUR_FFVAL      | %UW0.z.27                          | WORD      | Loadcell Input Module: CH1 Free Fall Data                 |
| Tag  | GlobalVariable | _0z_CH1_EQUCALEND      | %UX0.z.55                          | BOOL      | Loadcell Input Module: CH1 Equivalent Calibration Status  |
| Tag  | GlobalVariable | _0z_CH1_EQUCALREQ      | %UX0.z.469                         | BOOL      | Loadcell Input Module: CH1 Equivalent Calibration Request |
| Tag  | GlobalVariable | _0z_CH1_ERR            | %UX0.z.31                          | BOOL      | Loadcell Input Module: CH1 Error                          |
| Tag  | GlobalVariable | _0z_CH1_GRSMINUS       | %UX0.z.77                          | BOOL      | Loadcell Input Module: CH1 Gross Weight Negative Status   |
| Tag  | GlobalVariable | _0z_CH1_GWDATA         | %UD0.z.4                           | DINT      | Loadcell Input Module: CH1 Gross Weight Data              |
| Tag  | GlobalVariable | _0z_CH1_GWMAX          | %UD0.z.11                          | DWORD     | Loadcell Input Module: CH1 Gross Weight Max. Data         |
| Tag  | GlobalVariable | _0z_CH1_GWMIN          | %UD0.z.12                          | DWORD     | Loadcell Input Module: CH1 Gross Weight Min. Data         |
| Tag  | GlobalVariable | _0z_CH1_HHOORSTAT      | %UX0.z.92                          | BOOL      | Loadcell Input Module: CH1 High High Status               |
| Tag  | GlobalVariable | _0z_CH1_HOLDREQ        | %UX0.z.503                         | BOOL      | Loadcell Input Module: CH1 Output Hold Request            |
| Tag  | GlobalVariable | _0z_CH1_HOOR           | %UX0.z.81                          | BOOL      | Loadcell Input Module: CH1 Upper Alarm                    |
| Tag  | GlobalVariable | _0z_CH1_HOORSTAT       | %UX0.z.93                          | BOOL      | Loadcell Input Module: CH1 High Status                    |
| Tag  | GlobalVariable | _0z_CH1_LLOORSTAT      | %UX0.z.95                          | BOOL      | Loadcell Input Module: CH1 Low Low Status                 |
| Tag  | GlobalVariable | _0z_CH1_LOOR           | %UX0.z.83                          | BOOL      | Loadcell Input Module: CH1 Lower Alarm                    |
| Tag  | GlobalVariable | _0z_CH1_LOORSTAT       | %UX0.z.94                          | BOOL      | Loadcell Input Module: CH1 Low Status                     |
| Tag  | GlobalVariable | _0z_CH1_MAXMINREQ      | %UX0.z.505                         | BOOL      | Loadcell Input Module: CH1 Min./Max. Hold Request         |
| Tag  | GlobalVariable | _0z_CH1_MINMAXHLD      | %UX0.z.73                          | BOOL      | Loadcell Input Module: CH1 Min./Max. Hold Status          |
| Tag  | GlobalVariable | _0z_CH1_NEARZERO       | %UX0.z.75                          | BOOL      | Loadcell Input Module: CH1 Near Zero Status               |
| Tag  | GlobalVariable | _0z_CH1_NETDATA        | %UD0.z.8                           | DINT      | Loadcell Input Module: CH1 Net Weight Data                |
| Tag  | GlobalVariable | _0z_CH1_NETMINUS       | %UX0.z.79                          | BOOL      | Loadcell Input Module: CH1 Net weight Negative Status     |
| Tag  | GlobalVariable | _0z_CH1_OVER           | %UX0.z.47                          | BOOL      | Loadcell Input Module: CH1 Over Status                    |
| Tag  | GlobalVariable | _0z_CH1_RUN            | %UX0.z.17                          | BOOL      | Loadcell Input Module: CH1 Run Status                     |
| Tag  | GlobalVariable | _0z_CH1_SCALED         | %UX0.z.51                          | BOOL      | Loadcell Input Module: CH1 Span Calibration Status        |
| Tag  | GlobalVariable | _0z_CH1_SCALREQ        | %UX0.z.483                         | BOOL      | Loadcell Input Module: CH1 Span Calibration Request       |
| Tag  | GlobalVariable | _0z_CH1_SEQREQ         | %UX0.z.507                         | BOOL      | Loadcell Input Module: CH1 Sequential Control Request     |
| Tag  | GlobalVariable | _0z_CH1_SP1            | %UX0.z.43                          | BOOL      | Loadcell Input Module: CH1 Step1 Status                   |
| Tag  | GlobalVariable | _0z_CH1_SP2            | %UX0.z.44                          | BOOL      | Loadcell Input Module: CH1 Step2 Status                   |
| Tag  | GlobalVariable | _0z_CH1_SP3            | %UX0.z.45                          | BOOL      | Loadcell Input Module: CH1 Step3 Status                   |
| Tag  | GlobalVariable | _0z_CH1_STBL           | %UX0.z.33                          | BOOL      | Loadcell Input Module: CH1 Stable Status                  |
| Tag  | GlobalVariable | _0z_CH1_TAREDATA       | %UD0.z.6                           | DWORD     | Loadcell Input Module: CH1 Tare Weight Data               |
| Tag  | GlobalVariable | _0z_CH1_TAREREQ        | %UX0.z.501                         | BOOL      | Loadcell Input Module: CH1 Tare Setting                   |
| Tag  | GlobalVariable | _0z_CH1_TARERSTREQ     | %UX0.z.509                         | BOOL      | Loadcell Input Module: CH1 Tare Release Request           |
| Tag  | GlobalVariable | _0z_CH1_TSET           | %UX0.z.69                          | BOOL      | Loadcell Input Module: CH1 Tare Setting Status            |
| Tag  | GlobalVariable | _0z_CH1_UNDER          | %UX0.z.46                          | BOOL      | Loadcell Input Module: CH1 Lack Status                    |



# XGB Analog Modules

## XBF-LD02S Load Cell Input Module Configuration, *continued*

| Type | Scope          | Variable<br>(Symbolic) | Address<br>(Direct Variable Alias) | Data Type            | Comment                                             |
|------|----------------|------------------------|------------------------------------|----------------------|-----------------------------------------------------|
| Tag  | GlobalVariable | _0z_CH1_WEIGHTHLD      | %UX0.z.71                          | BOOL                 | Loadcell Input Module: CH1 Output Hold Status       |
| Tag  | GlobalVariable | _0z_CH1_ZCALEND        | %UX0.z.49                          | BOOL                 | Loadcell Input Module: CH1 Zero Calibration Status  |
| Tag  | GlobalVariable | _0z_CH1_ZCALREQ        | %UX0.z.481                         | BOOL                 | Loadcell Input Module: CH1 Zero Calibration Request |
| Tag  | GlobalVariable | _0z_CH1_ZERO           | %UX0.z.35                          | BOOL                 | Loadcell Input Module: CH1 Zero Status              |
| Tag  | GlobalVariable | _0z_CH1_ZRST           | %UX0.z.67                          | BOOL                 | Loadcell Input Module: CH1 Zero Reset Status        |
| Tag  | GlobalVariable | _0z_CH1_ZRSTREQ        | %UX0.z.499                         | BOOL                 | Loadcell Input Module: CH1 Zero Reset request       |
| Tag  | GlobalVariable | _0z_CH1_ZSET           | %UX0.z.65                          | BOOL                 | Loadcell Input Module: CH1 Zero Setting Status      |
| Tag  | GlobalVariable | _0z_CH1_ZSETREQ        | %UX0.z.497                         | BOOL                 | Loadcell Input Module: CH1 Zero Setting Request     |
| Tag  | GlobalVariable | _0z_CH_CUR_FFVAL_ARY   | %UW0.z.26                          | ARRAY[0..1] OF WORD  | Loadcell Input Module: Each CH Free Fall Data       |
| Tag  | GlobalVariable | _0z_CH_GWDATA_ARY      | %UD0.z.3                           | ARRAY[0..1] OF DINT  | Loadcell Input Module: Each CH Gross Weight Data    |
| Tag  | GlobalVariable | _0z_CH_NETDATA_ARY     | %UD0.z.7                           | ARRAY[0..1] OF DINT  | Loadcell Input Module: Each CH Net Weight Data      |
| Tag  | GlobalVariable | _0z_CH_TAREDATA_ARY    | %UD0.z.5                           | ARRAY[0..1] OF DWORD | Loadcell Input Module: Each CH Tare Weight Data     |
| Tag  | GlobalVariable | _0z_ECODE              | %UW0.z.28                          | WORD                 | Loadcell Input Module: Error Code                   |
| Tag  | GlobalVariable | _0z_ERR                | %UX0.z.0                           | BOOL                 | Loadcell Input Module: Error Flag                   |
| Tag  | GlobalVariable | _0z_RDY                | %UX0.z.15                          | BOOL                 | Loadcell Input Module: Ready Flag                   |