

BRIDGE-BOY

EOT CRANE OVERLOAD PROTECTION ELECTRONICS WITH 1 OR 3 SET-POINTS

Electronics with 1 or 3 set-points designed, in combination with a load cell, to limit the load and/or to detect slack cable on a hoisting device (EOT cranes).



BRIDGE-BOY-1R



Features

- o Low cost
- o 1 or 3 independent set-points
- o Set-points 1 and 2 configured for load limitation
- o Set-point 3 configured by default for slack cable detection
- o Adjustments by potentiometers
- o Analogue outputs: 0...10 V and 4...20 mA
- o Din rail mounting (TS 35)
- o 115 VAC available by internal jumper

Application(s) SENSY's BRIDGE-BOY is perfectly designed for the following applications:

- Load limitation on: overhead cranes, container cranes, gantry cranes.

Function(s)

- Internal monitoring system of load cell integrity and load limitation electronics (fail safe)
- Overloads visualisation by a LED lamp at the front panel
- Test button at the front panel
- Hysteresis
 - Overload : default value : 20% (0% or 5% possible if specified when ordering)
 - Slack cable detection : 0%

Specifications	BB-48VAC-1R	BB-230VAC-1R	BB-48VAC-3R	BB-230VAC-3R	
Type	Load limiter with single strain-gauge input	Load limiter with single strain-gauge input	Load limiter with single strain-gauge input	Load limiter with single strain-gauge input	-
Input range	0.4...2 mV/V**	0.4...2 mV/V**	0.4...2 mV/V**	0.4...2 mV/V**	-
Sensor excitation	10...28 mA (11 V max)***	10...28 mA (11 V max)***	10...28 mA (11 V max)***	10...28 mA (11 V max)***	-
Accuracy	± 0.5	± 0.5	± 0.5	± 0.5	% F.S.*
Service temperature range	-20...+60	-20...+60	-20...+60	-20...+60	°C
Storage temperature range	-40...+70	-40...+70	-40...+70	-40...+70	°C
Power supply	48-110 VAC (50 / 60 Hz, 4 VA)	115-230 VAC (50 / 60 Hz, 3 VA)	48-110 VAC (50 / 60 Hz, 4 VA)	115-230 VAC (50 / 60 Hz, 3 VA)	-
Qty of relay	1	1	3	3	-
Relay type	"Form C" activated in safe situation	"Form C" activated in safe situation	"Form C" activated in safe situation	"Form C" activated in safe situation	-
Contact rating	6 A @ 250 VAC	6 A @ 250 VAC	6 A @ 250 VAC	6 A @ 250 VAC	-
Adjustable delay	60 ms...1 s***	60 ms...1 s***	60 ms...1 s***	60 ms...1 s***	-
Output tension	0..10 (load resistance >= 2.5 kohms)	0..10 (load resistance >= 2.5 kohms)	0...10 (load resistance >= 2.5 kohm)	0..10 (load resistance >= 2.5 kohms)	V
Output current	4...20 mA (load resistance <= 500 ohms)	4...20 mA (load resistance <= 500 ohms)	4...20 mA (load resistance <= 500 ohms)	4...20 mA (load resistance <= 500 ohms)	mA
IP rating	IP20	IP20	IP20	IP20	-

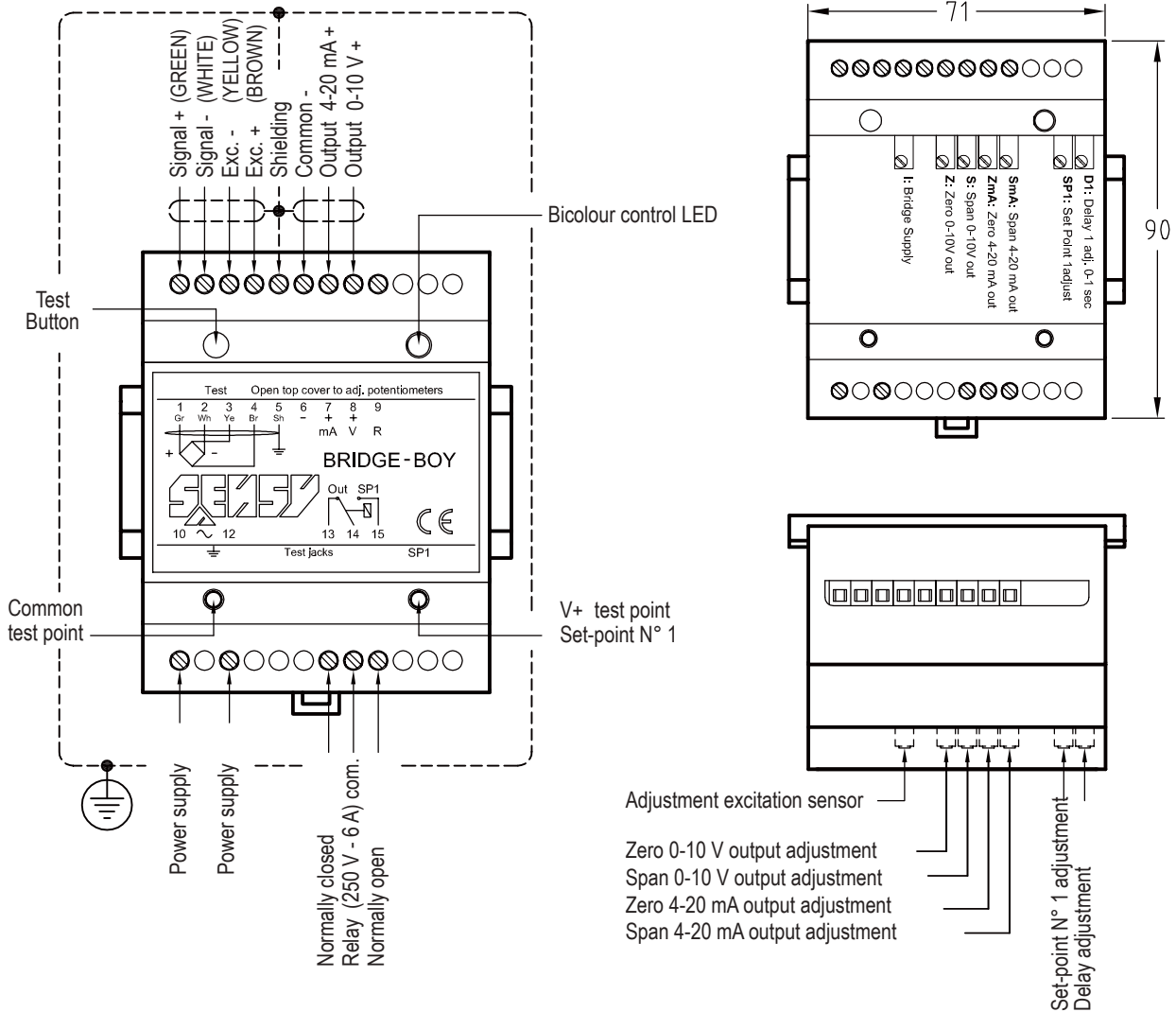
*F.S. : Full Scale.

** : Wheatstone bridge >= 350 ohms.

*** : adjustable by multi-turn potentiometer.

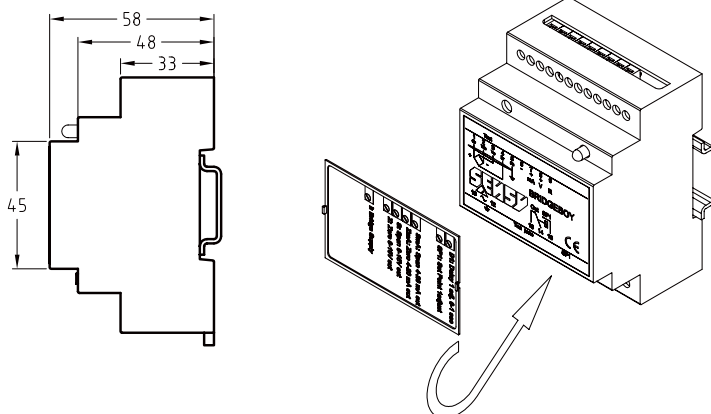
Specifications subject to change without notice.

BRIDGE-BOY-1R > STANDARD DIMENSIONS



Dimensions in mm

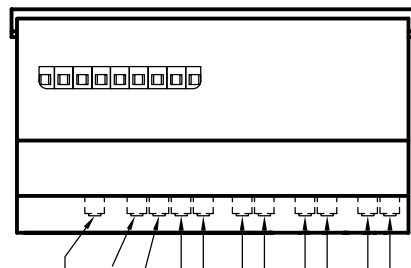
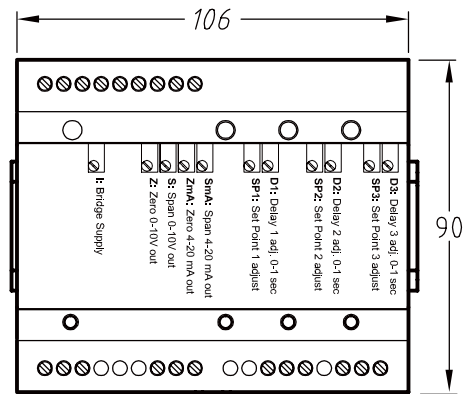
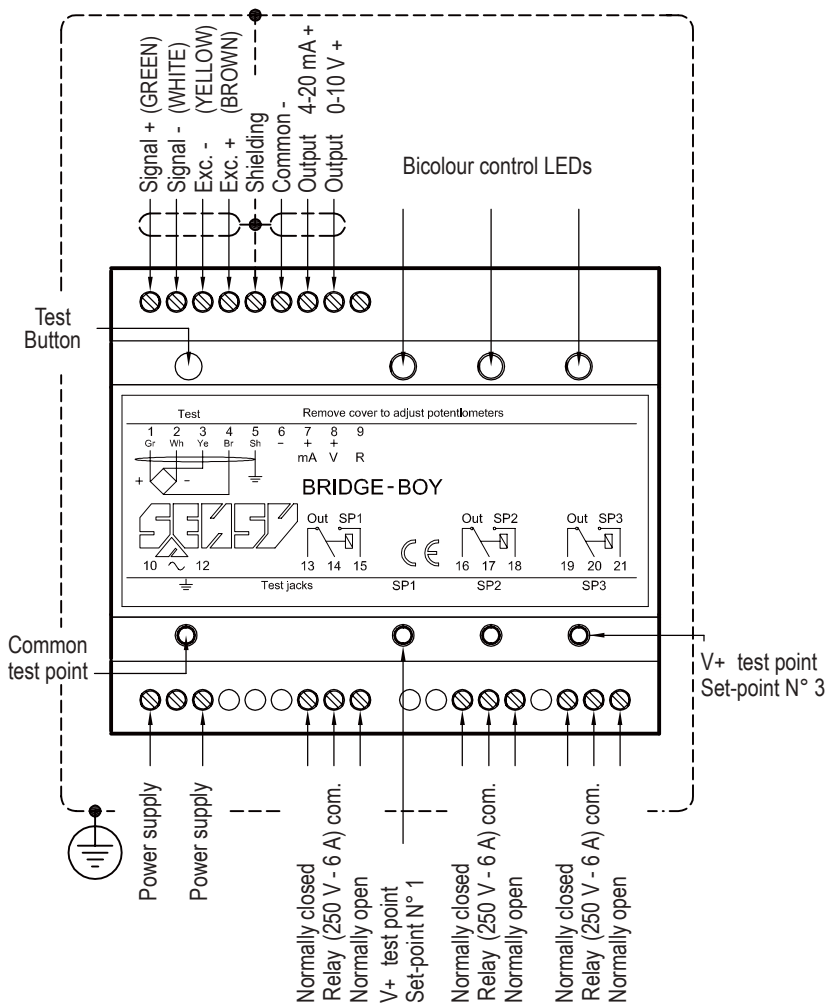
Other views



Terminals

See drawing

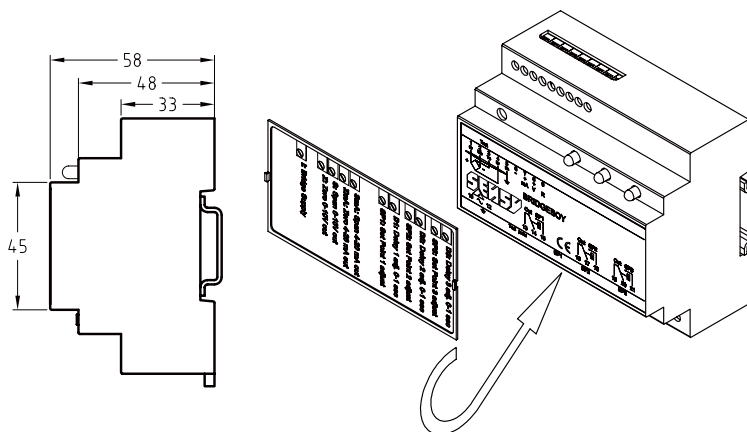
BRIDGE-BOY-3R > STANDARD DIMENSIONS



- Adjustment excitation sensor
- Zero 0-10 V output adjustment
- Span 0-10 V output adjustment
- Zero 4-20 mA output adjustment
- Span 4-20 mA output adjustment
- Set-point N° 1 adjustment
- Delay adjustment
- Set-point N° 2 adjustment
- Delay adjustment
- Set-point N° 3 adjustment
- Delay adjustment

Dimensions in mm

Other views

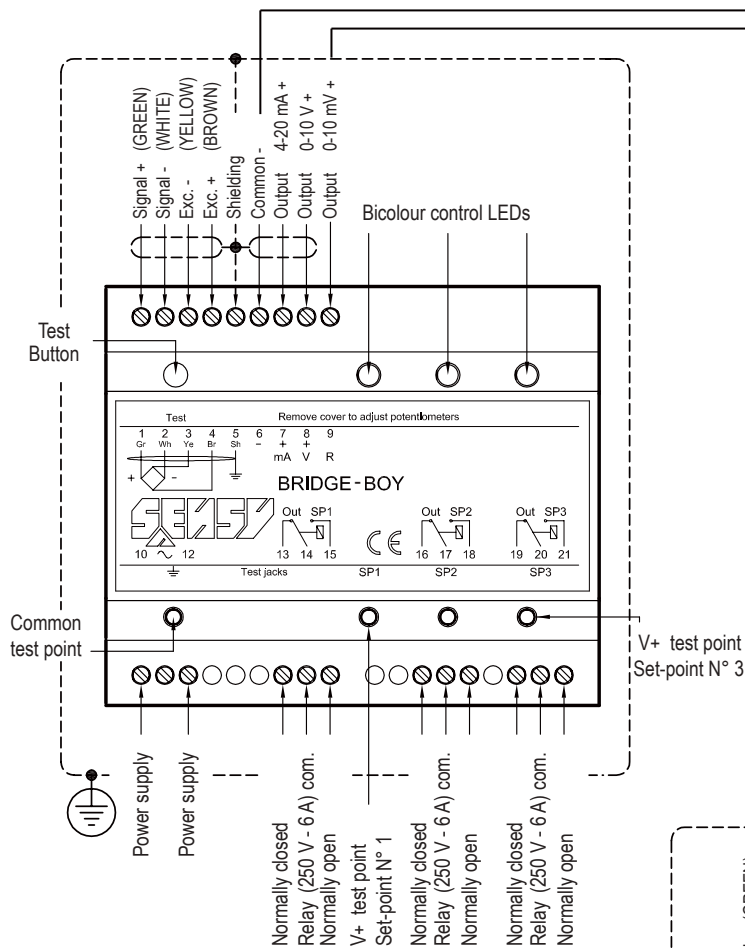


Terminals

See drawing

BRIDGE-BOY-6R > STANDARD DIMENSIONS

BRIDGE-BOY-3R



BRIDGE-BOY-3R

