

BRIDGE-BOY

LOAD LIMITATION 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 of a hoisting device (EOT cranes).

BRIDGE-BOY



Features

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

Applications

- Load limitation on
- overhead cranes
 - container cranes
 - gantry cranes

Functions

- Internal monitoring system of the integrity of the load cell and the load limitation electronics (positive safety).
- Visualization of overloads by a led on the front.
- TEST button on the front
- Hysteresis
 - Overload : default value : 20% (0% or 5% possible if specified at the order)
 - Slack cable detection : 0%

Specifications	BB-48VAC-1R	BB-230VAC-1R	BB-48VAC-3R	BB230VAC-3R	
Type	Load limiter with single strain gage input	Load limiter with single strain gage input	Load limiter with single strain gage input	Load limiter with single strain gage input	-
Input range	0.4...2mV/V*	0.4...2mV/V*	0.4...2mV/V*	0.4...2mV/V*	-
Sensor excitation	10...28 mA (11V. max)**	10...28 mA (11V. max)**	10...28 mA (11V. max)**	10...28 mA (11V. max)**	-
Display	-	-	-	-	-
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	48-115VAC (50/60Hz, 10VA)	115-230VAC (50/60Hz, 10VA)	48-115VAC (50/60Hz, 10VA)	115-230VAC (50/60Hz, 10VA)	-
IP Rating	IP20	IP20	IP20	IP20	-
Qty of relay	1	1	3	3	-
Adjustable delay	60ms...1s**	60ms...1s**	60ms...1s**	60ms...1s**	-
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	-
Breaking capacity relay	6A @250VAC	6A @250VAC	6A @250VAC	6A @250VAC	-
Output tension	0..10 (load R.>= 2.5kOhm)	0..10 (load resistance : >= 2.5kOhm)	0..10 (load resistance : >= 2.5kOhm)	0..10 (load resistance : >= 2.5kOhm)	V
Output current	4...20mA (load resistance <= 500 Ohm)	4...20mA (load resistance <= 500 Ohm)	4...20mA (load resistance <= 500 Ohm)	4...20mA (load resistance <= 500 Ohm)	mA

* : Wheatstone bridge >= 350 Ohms

** : Adjustable by multi-turn potentiometer

F.S.: full scale - Specifications subject to change without notice



www.sensy.com

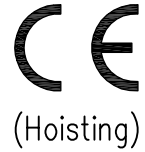
LOAD LIMITER

model BRIDGE 1 Setpoint relay

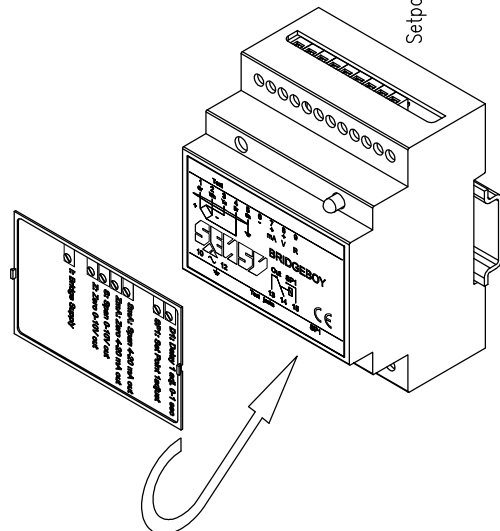
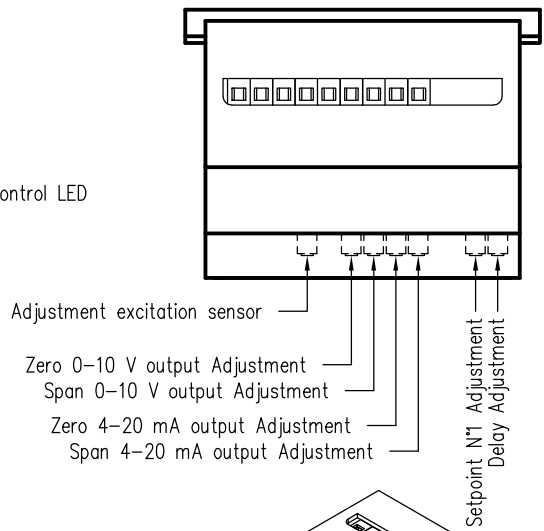
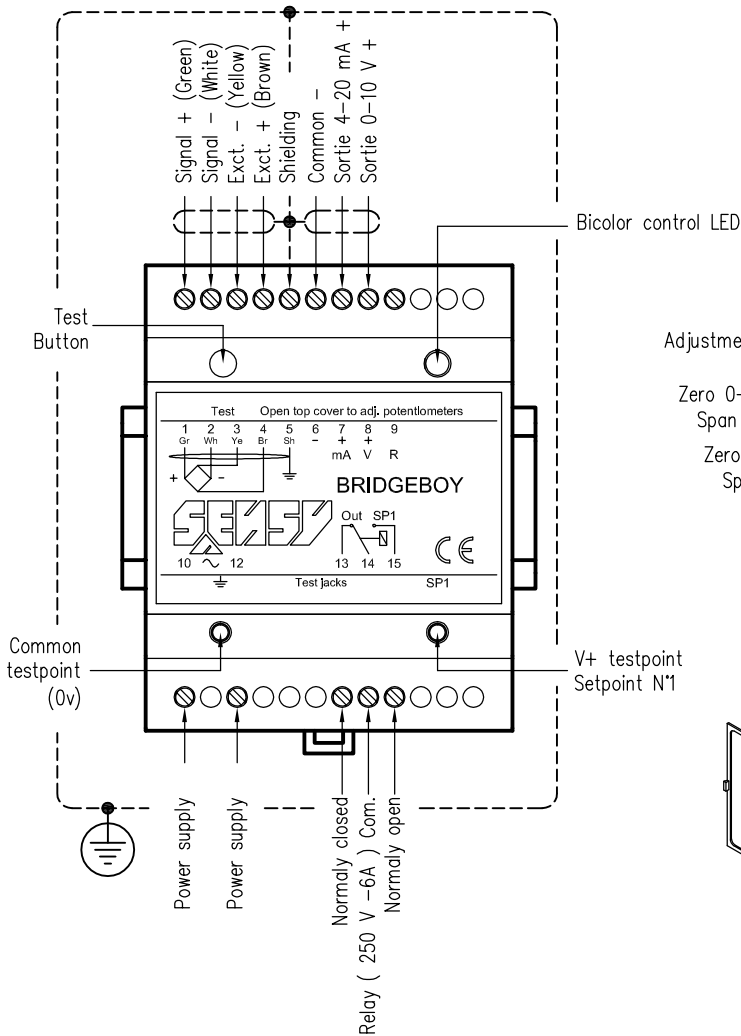
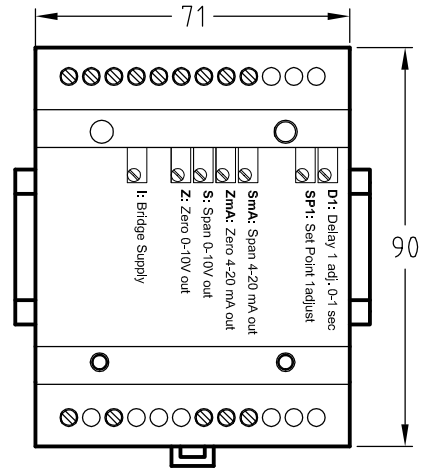
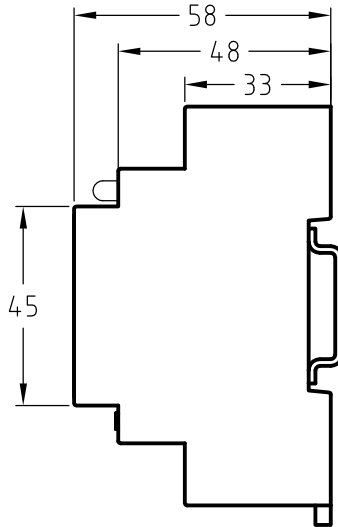
Compact model for mounting on DIN rail TS35 IP54

Available power supply

48-115-230 VAC



Ref :
BRIDGE-BOY-48VAC-1R
BRIDGE-BOY-115VAC-1R
BRIDGE-BOY-230VAC-1R





www.sensy.com

LOAD LIMITER

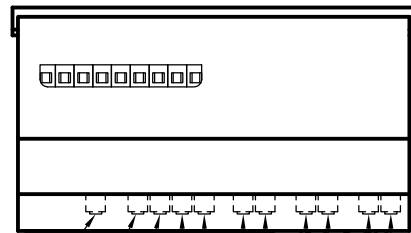
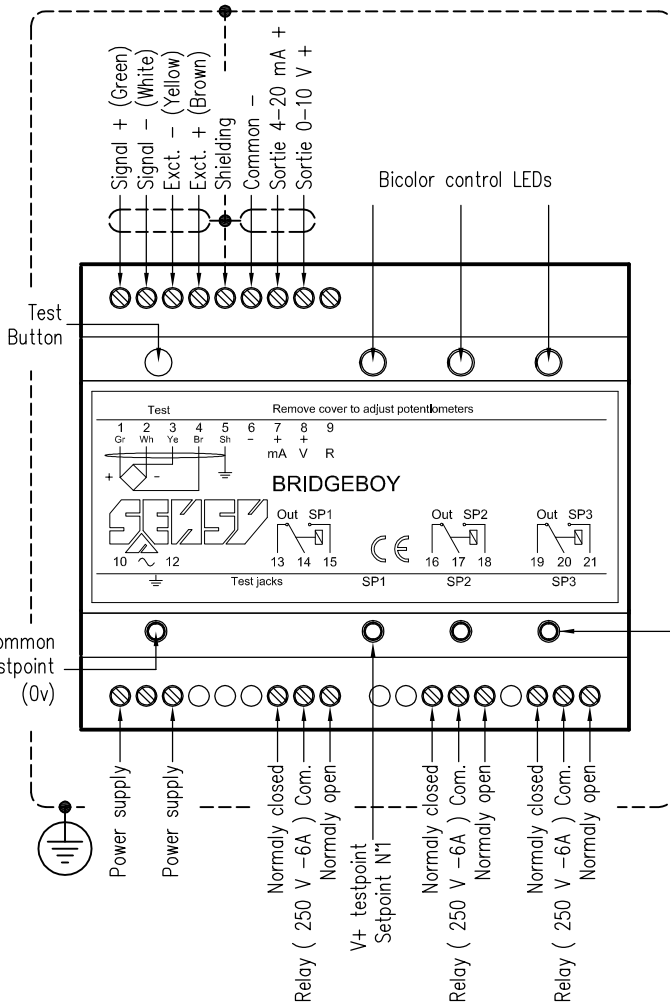
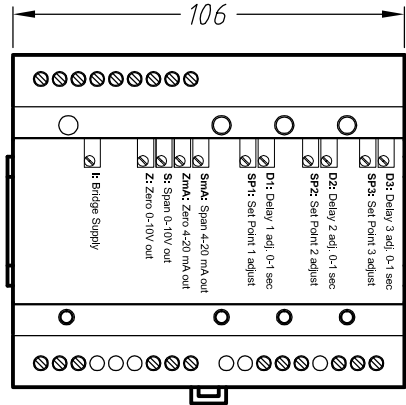
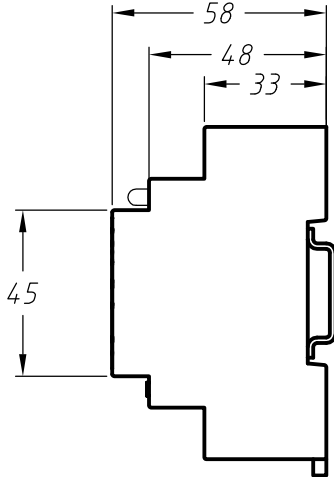
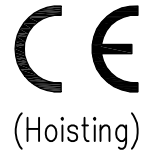
model BRIDGE 3 Setpoint relay

Ref :

- BRIDGE-BOY-48VAC-3R
- BRIDGE-BOY-115VAC-3R
- BRIDGE-BOY-230VAC-3R

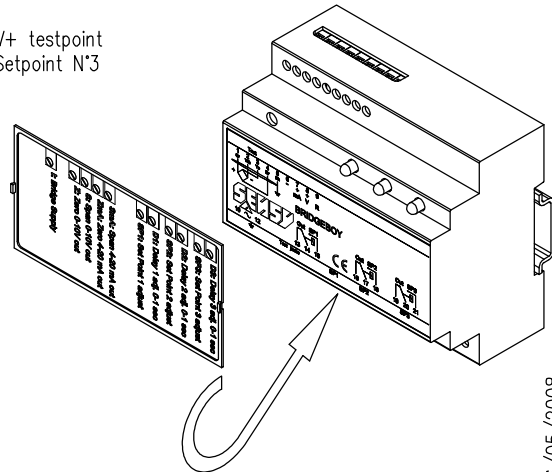
Compact model for mounting on DIN rail TS35 IP54

Available power supply
48-115-230 VAC



- 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
- Setpoint N'1 Adjustment Delay Adjustment
- Setpoint N'2 Adjustment Delay Adjustment
- Setpoint N'3 Adjustment Delay Adjustment

V+ testpoint
Setpoint N'3





www.sensy.com

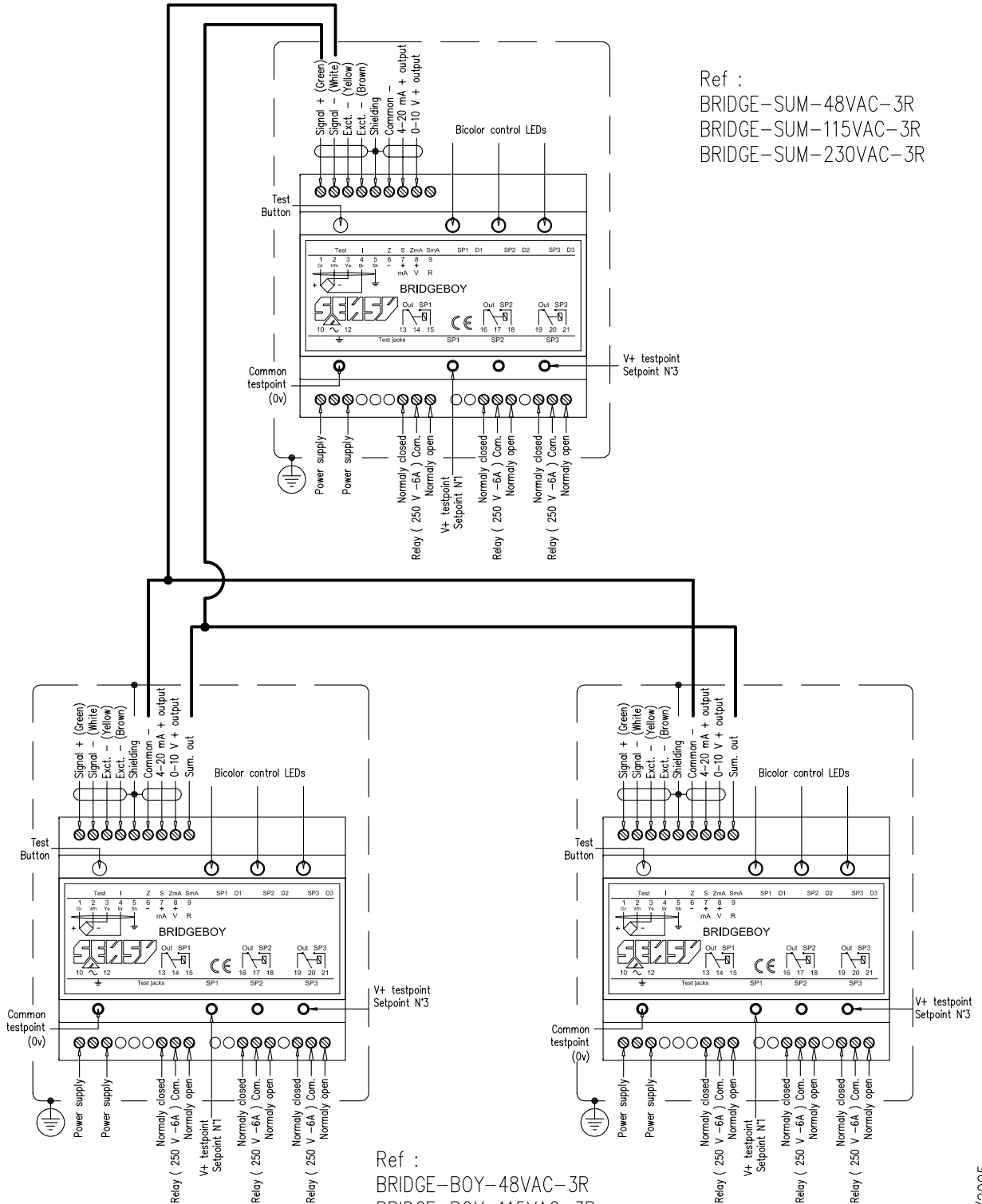
LOAD LIMITER

BRIDGE-BOY SUMMATION



(Hoisting)

Ref :
 BRIDGE-SUM-48VAC-3R
 BRIDGE-SUM-115VAC-3R
 BRIDGE-SUM-230VAC-3R



Ref :
 BRIDGE-BOY-48VAC-3R
 BRIDGE-BOY-115VAC-3R
 BRIDGE-BOY-230VAC-3R