

- Easy to mount directly on the anchor point of the crane
- Alloy steel (Stainless Steel available)
- Protection IP 65
- Available with integrated amplifier 4-20 mA or 1-5 Volt
- A complete range of electronics, load limiters and displays are also offered "CE" certified
- "EEx" ia II C T4/T6 version available
- Very large range of cable suitable (from diameter of : 6 to 45 mm)
- Reliable and economical solution



Model 5500 + accessories

The SENSY's load cell 5500 is perfectly designed to the following applications :

- Especially designed for equipment of existing cranes
- Hoisting and crane's security in combination with a load limiter (BRIDGEBOY, CRANEBOY, ...)
- Very easy and fast installation

#### AVAILABLE CAPACITIES :

5500 : 0.25 ton to 24 tons on the cable



**CE**  
(Hoisting)

# LOAD CELLS

model 5500

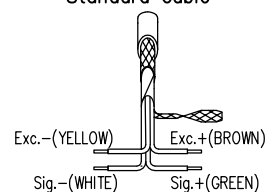
## LOAD CELL ON CABLE

Range cable  $\varnothing$  6–45 mm IP65

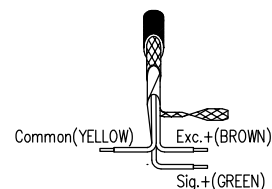
Cable length : See table (CL)



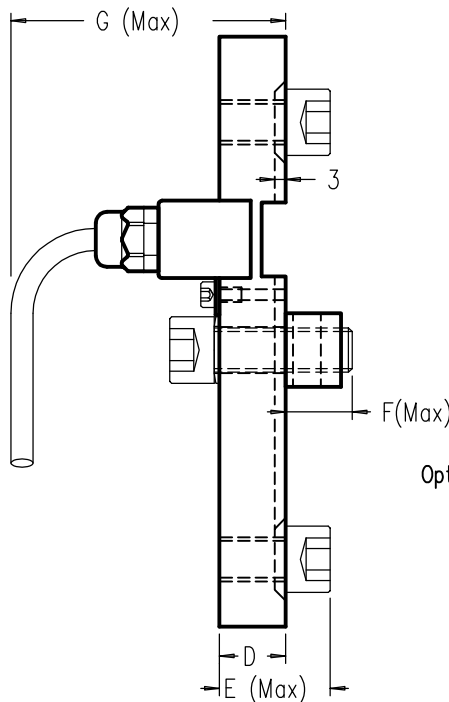
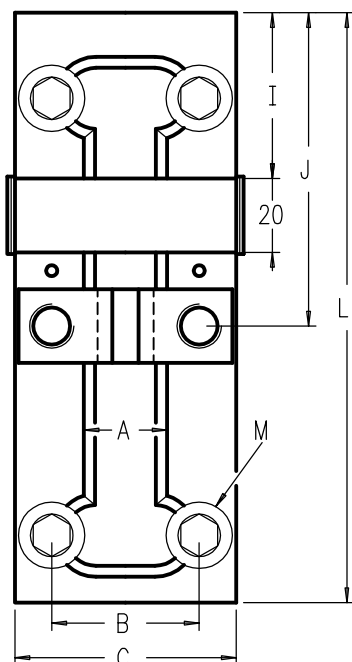
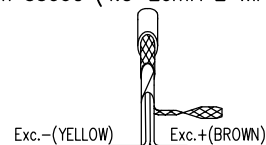
Standard cable



Option 5500J (4–20mA 3 Wires)  
or 5500t (1...5V)



Option 5500C (4.5–20mA 2 Wires)

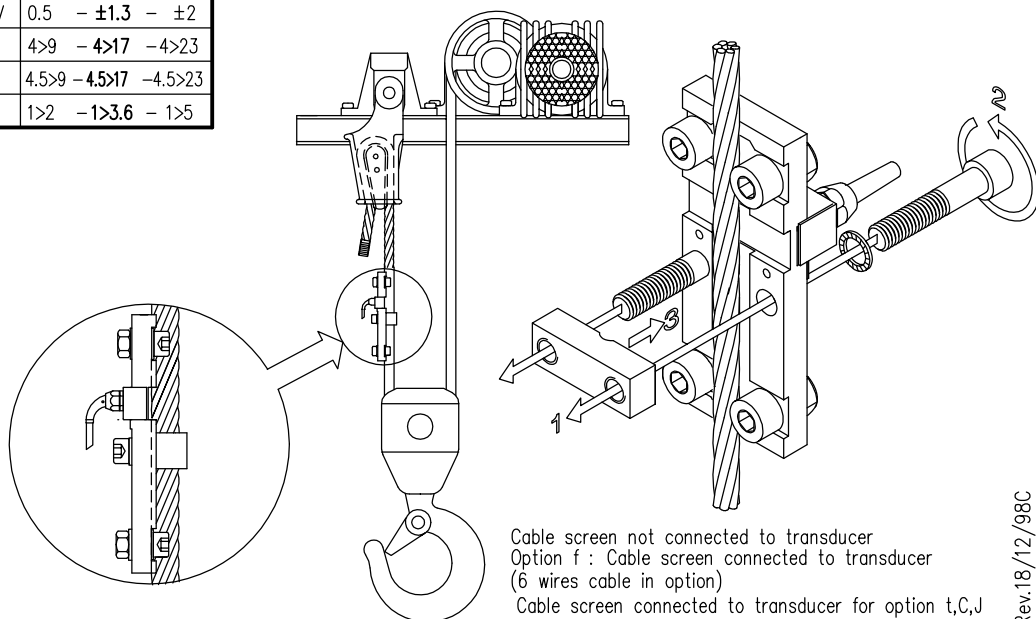


		CABLEØ	LOAD t.(2)													Torque	
MODEL		(mm)	min–NOMINAL–max	±A	B	C	D	E	±F	G	I	J	L	M	(Optimum)	CL(m)	
5500/1TSA(3)	/1TTSI	6–12	0.25 – 0.8 – 1.2	20	40	60	18	30	31	100	45	85	160	M12	10 Nm	3	
5500/1TSA(1)	/1TSI	6–14	0.4 – 1.1 – 1.5												15 Nm		
5500/1SA (1)	/1SI	10–16	0.75 – 2 – 2.8														
5500/1A (1)	/1I	12–20	1.6 – 3.5 – 5	20	50	75	18	30	40	100	45	85	160	M12	20 Nm	3	
5500/2A (1)	/2I	18–26	2 – 5 – 7												25 Nm		
5500/3A	/3I	26–36	5.5 – 10 – 16	25	68	100	25	41	55	115	55	95	200	M16	25 Nm		6
5500/4A	/	35–45	10 – 15 – 24	35	75	115	26	46	70	116	55	110	230	M20	50 Nm		

5500 mV/V	0.5 – $\pm 1.3$ – $\pm 2$
5500J mA	4>9 – 4>17 – 4>23
5500C mA	4.5>9 – 4.5>17 – 4.5>23
5500t V	1>2 – 1>3.6 – 1>5

Stainless steel

- (1) Alloy steel=Label VGS
- (2) Table detailing sensitivity and SENSY electronics limits for each cable diameter, available upon request
- (3) Only in version 5500J 4–20 mA 3 wires



Cable screen not connected to transducer  
Option f : Cable screen connected to transducer  
(6 wires cable in option)  
Cable screen connected to transducer for option t,C,J

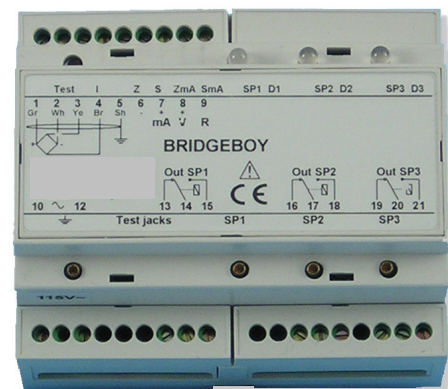
The BRIDGEBOY-3R is designed, in combination with load cell, for load limitation with 3 set points of hoisting devices and particularly overhead cranes (EOT).

Details of the set points:

- Overload detection
- Slack cable detection
- Intermediate load detection.

The BRIDGEBOY-3R assures the **"positive safety"**, it puts itself in alarm whatever the detected default may be.

Available on BRIDGEBOY-3R, a **test** button for the easy check of the good function of the whole load limitation chain.



<b>Input signal</b>	Between 0,5 and 2 mV/V (from the load cell)	
Load cell power supply	Settable current between 10 and 28 mA (11 V max)	(Trim pot on front)
Load cell resistance	$\geq 350 \Omega$	
Adjustable span	From 500 to 2.000 (3 ranges and potentiometer)	
Adjustable Zero	Up to 25 % of Full Scale (FS)	
<b>Output signals</b>	0..10 V	(Load R: $\geq 2,5 \text{ k}\Omega$ )
	4..20 mA	(Load R: $\leq 500 \Omega$ )
	Output for downstream Bridgeboy - cascade mounting or combined load	
<b>Accuracy</b>	$\pm 0,5 \%$ FS	
<b>Set point</b>	From 0 to 12 V (setting through trim pot on front)	
	The 3rd set point is by default configured in slack cable detection	
<b>Relays</b>	Form-C, SPDT (250 V – 6A) Active in normal situation	
<b>Response time</b>	From 60 ms to 1 s (Trim pot on front)	
<b>Hysteresis</b>	Overload and intermediate load: 20 %	
	Slack cable detection: 0 %	
	(Modifiable by replacing internal resistance)	
<b>Environmental</b>	Service temperature range	from $-20$ to $+ 60^{\circ}\text{C}$
	Storage temperature range	from $- 40$ to $+ 70^{\circ}\text{C}$
	Protection	IP54
<b>Temp. coefficient</b>	$< 0,2 \%$ / $10^{\circ}\text{C}$	
<b>Power supply</b>	48, 115 or 230 VAC (50/60 Hz) 5 VA (tension to be mentioned when ordering)	
<b>Electromagnetic conformity</b>	EN 50 081-1, EN 50 081-2 and NBN 52 003 (hoisting specifications)	
<b>Dimensions and wiring</b>	See enclosure	

# LOAD LIMITER

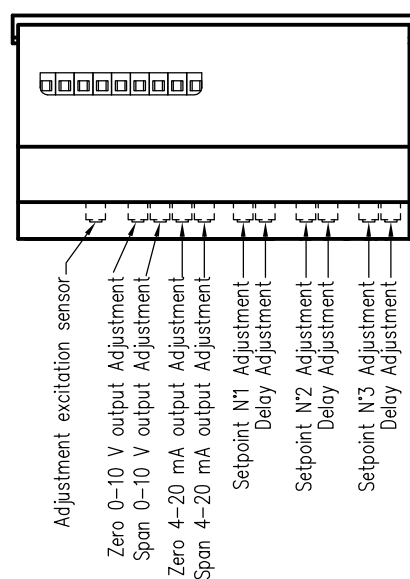
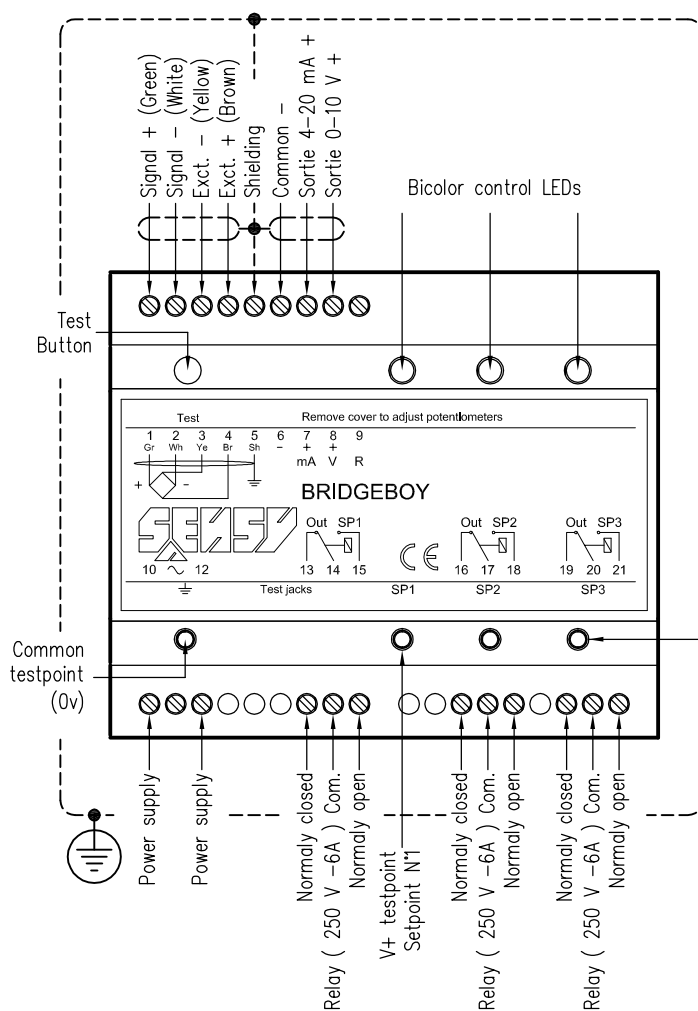
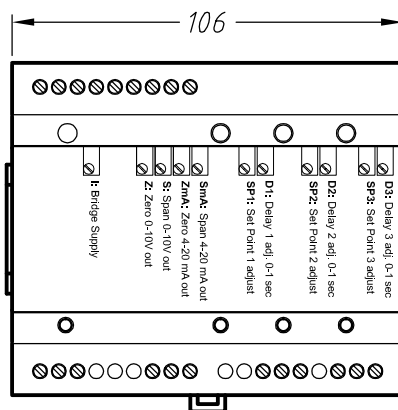
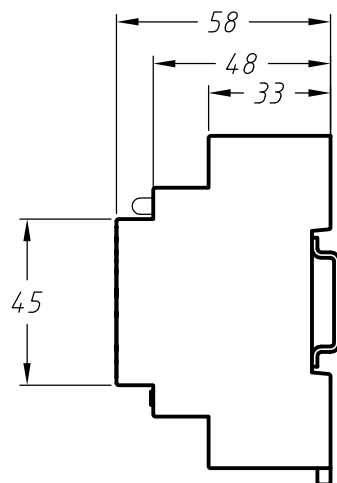
## model BRIDGE 3 Setpoint relay



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



V+ testpoint Setpoint N°3

