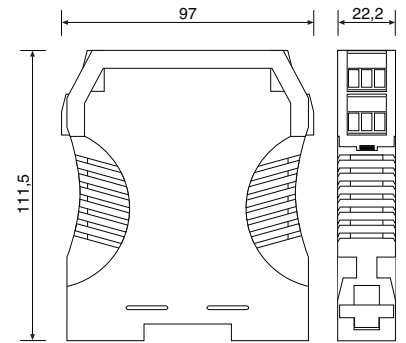


# FORCE FLEX

CONVERTER FOR LOAD CELLS



## APPLICATIONS

Dosing and weighing in hopper weighing, silos...  
 Weight and control on conveyor belts.  
 Force control in presses and testing machines.  
 Control of forces in cylinders and pneumatic actuators.  
 Tensión regulation on transfer bands.

## FEATURES

Universal converter for load load cells and Wheastone bridge sensors.  
 You can connect 1 to 4 load load cells.  
 It allows to absorb (subtract) or add with great precision and stability a wide range of tare.  
 It has a filter selectable in 4 levels to stabilize the output signal depending on each application.  
 It is protected by complying with EMC standards for industrial applications.  
 The connection is made using coded plug-in terminals, which facilitate the rapid exchange of modules without rewiring, and protect against mistakes.

## STRUCTURE

Protection	<b>IP20</b>
Combustibility class	<b>Vo según UL94</b>
Ergonomic box	
Easy rail mount	<b>EN50022</b>
Polyamide material	<b>PA6.6</b>
Connection	<b>Plug-in screw terminals</b>
Terminal error protections	<b>Codes</b>
tightening torque(M3)	<b>0,5Nm</b>
	<b>= &lt; 2,5mm2</b>
Connection cable	<b>12AWG 250V/12A</b>
Weight	<b>140g</b>



## SPECIFICATIONS

INPUT	
Number of load cells	<b>1.. 4 load cells (350/4 Ω)</b>
Sensitivity	<b>0,8mV/V... 3mV/V (selectable by welding)</b>
Input voltage	<b>10V/5V</b>
Maximum input current	<b>120mA</b>
MULTIRANGE	
Selectable, high stability. 3 Steps for the TARE and gain range:	
Sliding Microswitch MODE	<b>2 Positions</b>
THICK Rotating Microswitch	<b>16 Steps</b>
FINE Adjustable multiturn	<b>15 turns</b>
SPAN Minimum field of use of the cell	<b>40% F.e.</b>
ZERO TARE operating range	<b>ADD 100% F.e. REST -57% F.e.</b>
ENVIRONMENTAL	
Operating temperature range	<b>-10/+60°C</b>
Storage temperature	<b>-40/+80°C</b>
Warm-up time	<b>5 minutes</b>
Temperature coefficient	<b>50 ppm/°C</b>
POWER SUPPLY	
Double and automatic	<b>RANGE</b>
115/230VAC (automática) 50/60Hz	<b>100.. 250VAC</b>
24VDC (amplio RANGE)	<b>20.. 30VDC</b>
Consumo máximo	<b>1,8W</b>
PRECISION	
Maximum global error	<b>0,0125% (13bits) 8.000ptos</b>
Thermal drift	<b>Current: 0,3µA/°C</b>
	<b>Tension: 0,1mV/°C</b>
OUTPUT	
<i>Response time (10 ... 90%) selectable by microswitch in 4 levels</i>	
<b>CURRENT 4/20mA, 0/20mA, 0/5mA, ...</b>	
Capacity of Service load	<b>= &lt; 700Ω</b>
Protected against polarity inversion	
Response time	<b>0,02.. 0,5seg</b>
Maximum frequency	<b>10Hz</b>
<b>TENSION 4/20mA, 0/20mA, 0/5mA, ...</b>	
Capacity of Service load	<b>&gt; = 1K</b>
Short circuit protected	
Response time	<b>0,001.. 0,5seg</b>
Maximum frequency	<b>200Hz</b>

Reference	Description	#Code
FORCE FLEX	Amplifier/converter	810001