

## PENKO Engineering BV

The Leading Experts In Weighing & Dosing

6kg-60kg HPS

#### **FEATURES**

- Capacities: 6-60 kg
- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 3000d
- Comprehensive mounting hole facility
- Moment insensitive, platform size to 350 x 350 mm
- Optional
  - ATEX and FM certified versions are available for use in potentially explosive atmospheres
  - IP69K full hermetic construction with true glass to metal seal

# ATEX®

#### **APPLICATIONS**

- Food platforms
- Process weighing
- Multi-head packaging machines
- Marine hybrid scales

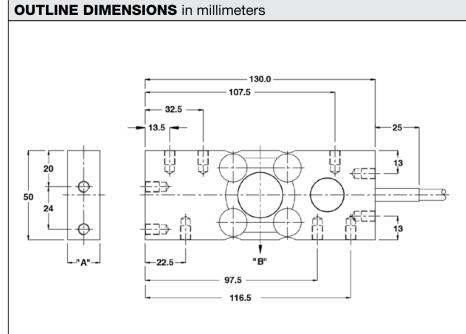
#### **DESCRIPTION**

The HPS is a unique fully welded all stainless steel single point (moment insensitive) load cell.

This product is suitable for low capacity platform scales, multi-head packaging machines, check weighers, loss-in-weight feeders, belt scales, and general process weighing applications.

The unique construction ensures that this product can be used successfully in harsh environments found in the food, chemical, and allied industries.

This product meets the stringent Weights and Measures requirements throughout Europe.



#### Cable specifications

Sense -

Cable length: 7m

Excitation + Green
Excitation - Black
Output + White
Output - Red
Sense + Yellow

Shield Transparent
Cable screen is not connected

to the load cell body.

Capacity (kg)	6, 12, 30	60		
Α	18.5	23.5		
В	Central load axis			
Max. recommended platform size 350 mm				
All threads M6x1 (8 Deep)				

Blue

### Load cell HPS: 6kg-60kg

## **Technical Data**

SPECIFICATIONS				
PARAMETER	VALUE		UNIT	
Standard capacities (E <sub>max</sub> )	6, 12, 30, 60		kg	
Accuracy class according to OIML R-60	Non-Approved	C3		
Max. no. of verfication intervals		3000		
Min. verification interval (V <sub>min</sub> )		E <sub>max</sub> /12000		
Rated output (=S)	2		mV/V	
Rated output tolerance	0.2		±% mV/V	
Zero balance	1.0		±% FSO	
Combined error	0.0500	0.0200	±% FSO	
Non-repeatability	0.0200	0.0100	±% FSO	
Minimum dead load output return	0.0500	0.0167	±% applied load	
Creep error (30 minutes)	0.0600	0.0245	±% applied load	
Temperature effect on min. dead load output	0.0250	0.0058	±% FSO/5°C (/°F)	
Temperature effect on sensitivity	0.0250	0.0045	±% applied load/5°C (/°F)	
Eccentric load effect*	0.03		±% FSO	
Minimum dead load	0		% E <sub>max</sub>	
Maximum safe overload	150		% E <sub>max</sub>	
Ultimate overload	300		% E <sub>max</sub>	
Maximum safe side load	100		% E <sub>max</sub>	
Deflection at E <sub>max</sub>	0.24±0.02 / 0.19±0.01 / 0.15±0.01 / 0.22±0.03		mm	
Excitation voltage	5 to 12		V	
Maximum excitation voltage	15		V	
Input resistance	400±6	400±6	Ω	
Output resistance	350±7		Ω	
Insulation resistance	≥5000		MΩ	
Compensated temperature range	-10 to +40		°C	
Operating temperature range	-40 to +80		°C	
Storage temperature range	-40 to +90		°C	
Element material (DIN)	Stainless steel 1.4542			
Sealing (DIN 40.050 / EN60.529)	IP66 and IP68			
Recommended torque on fixation bolts	6		N*m	

