

Digital single point load cell designed for high speed filling and check weighing applications. The stainless steel load cell is hermetically sealed and is ideal for use in heavy washdown applications



FEATURES

- Capacities from 10 to 50 kg.
- Stainless steel construction.
- Accuracy class C3 and C6.
- Environmental Protection IP69k with complete hermetic sealing.
- AD conversion rate up to 1200upd./sec.
- Free professional software for setting up the digital load cell.
- Maximum platform size up to 450 x 450 mm.

APPLICATIONS

- Bench scales, conveyor scales, check weighers, filling plants, packaging machines and industrial process control.

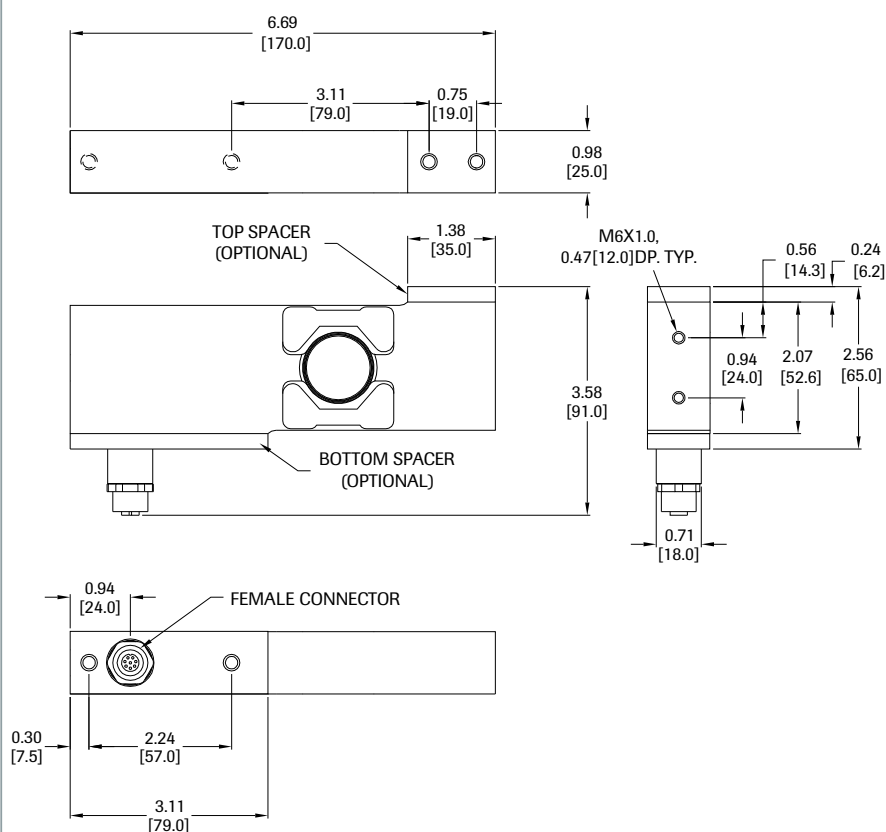
APPROVALS/ CERTIFICATIONS

- OIML Certificate of conformity for accuracy class C7.
Certificate No. R60/2000-DK3-17.02

OPTIONS

- Optional spacer set.

OUTLINE DIMENSIONS



single point SPF5 4086D

SPECIFICATIONS

Model	SPF5VP						
Capacities (Emax)	kg	10	20	50	10	20	50
Recommended min. external division	g	1	2	5	0.2	0.5	1
PERFORMANCES							
Accuracy class according to the OIML R60	C3				C6		
Minimum load cell verification interval(Vmin)	Emax/10000				Emax/50000		
Combined error	%FS	≤±0.017			≤±0.012		
Creep @ 30min	%FS	≤±0.017			≤±0.012		
Zero balance, raw counts	increment	±2000					
Output resolution at full load, raw counts	increment	256000	512000	512000	256000	512000	512000
Internal AD conversion rate	upd./sec	1200					
Fix, digital low pass IIR filter, default	Hz	18 (supress 50Hz and 60Hz influence)					
Adjustable , digital low pass IIR filter Adjustable , digital low pass FIR filter	Hz	18-0.25; selectable in 8 steps 40-5; selectable in 8 steps					
Adjustable, external output update rate	upd./sec	1200-9; selectable in 8 steps					
WEIGHING SCALE FUNCTIONS In accordance with OIML R76 Zero and Max calibration Span calibration point by choice with extrapolation. Selectable calibrated or manual Zero. Selectable Zero tracking One division defined as 1; 2; 5; 10; 20; 50; 100; 200 or 500 increments Decimal point as xxxx; xxx.x; xx.xx or x.xxx Local gravity acceleration (g=9.81m/s ²) compensation.							
GENERAL I/O's							
Hardware interface, CAN version Hardware interface, RS version	CAN and RS232 RS485 and RS422 (both four wire)						
Data transmission rates CAN Data transm. rates RS485/RS422/RS232	kbaud	125; 250; 500; 1000 9.6; 19.2; 38.4; 57.6; 115.2; 230.4; 460.8					
Protocol CAN Protocol RS485/ RS422/ RS232	CANopen ASCII or Modbus RTU						
Logical input, programmable	Trigger Level 2-30Vdc, <3mA, Ref to Gnd.						
Power supply	VDC	10-30 ≤ 0.4 Watt					
Connections	Standard 8 pin, female M12AF 0008						
OPERATING SOFTWARE	Complete Set-up, Calibration and Analysis program available.						

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single point SPF5 4086D



SPECIFICATIONS

INFLUENCES				
Capacities (E _{max})	kg	10	20	50
Safe load limit	%* E _{max}	300	150	150
Ultimate load	%* E _{max}	600	300	300
Eccentric loading error acc. to OIML R76	%E _{max}	±0.0233		
Max platform size	mm x mm	450 x 450		
Temperature effect on zero	%E _{max} /°C	0.001		
Temperature effect on span	%E _{max} /°C	0.001		
Temperature range	°C	Operating: -10/+40 Storage: -40/+70		
EMC performance	EN61326	MID Class E2 (Industrial locations)		
I/O protection, all pins	Reversed polarity; Excess voltage and surge			
Insulation body/ Electronics @ 500VDC	GΩ	≥1		
Vibration	2.5g operational; 5g non-operational			
Environmental Protection	Body IP69k; Connector IP68			
Corrosion resistance	All stainless steel (Electro polished)			

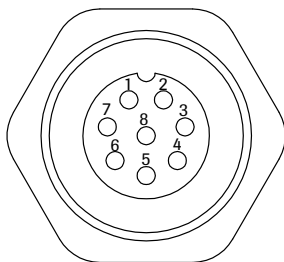
WIRING

Female Connector Signal Electronics M12AF0008		
Pin No.	RS-232 & CANbus	RS-422/-485
1	GND1	GND1
2	PROGRAM	PROGRAM
3	CANH	Rx+
4	TRIGGER INPUT	TRIGGER INPUT
5	CANL	Rx-
6	RxD	Tx-
7	TxD	Tx+
8	PWR+	PWR+

PART NUMBERS

Capacity (kg)	Option	Part No.
10	• Single IO (RS-232 & CANbus) • Accuracy Class C3	4086D-000-08
20		4086D-001-08
50		4086D-002-08
10	• Single IO (RS-232 & CANbus) • Accuracy Class C6	4086D-000-00
20		4086D-001-00
50		4086D-002-00
10	• Single IO (RS-422/-485) • Accuracy Class C3	4086D-000-09
20		4086D-001-09
50		4086D-002-09
10	• Single IO (RS-422/-485) • Accuracy Class C6	4086D-000-01
20		4086D-001-01
50		4086D-002-01

PIN Configuration



Dimensions and specifications subject to change without notice



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