## Model 6795 Single-Ended Load Pins



### **Description**

The 6795 load pin is developed from the BCM tube-like 6798 load pin, and functions as a single-ended load transducer.

Compared to the single-ended 5795 load pin which works on one-shear beam, the 6795 load pin employs the bending beam principle and results in higher resistance to measuring errors resulted from the eccentric load.

By keeping the most specifications of the 6798 double-ended load pins, the 6795-series are designed to have load capacity ranging from 0~300 kg to 0~50 ton, with 1%fs measuring accuracy, and the rest specifications can be referred to the BCM 6798 load pins.

As a single-ended load pin, one end of the 6795 is fixed to a stationary object while the other end is fixed to another object where the load is applied.

As the 6795-series load pins offer outstanding environmental protection up to IP68 rating, they are the good candidates for harsh environment use.



#### **Features**

- single-ended bending beam
- · good resistance to eccentric loading
- amplified output on request:
   4~20 mA, 1~5Vdc, 1~10Vdc
- capacity: 0.3t, ..., 50t
- protection rating up to IP68

## **Applications**

- · draft sensors
- crane scales
- · hopper weighing
- onboard vehicle weighing
- process system

Tel.: +32-3-238 6469 Fax: +32-3-238 4171

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#### **Technical Data**

capacity safe overload		ton	0.2 1 25 5 10 20 20 40 50		
			0.3, 1, 2.5, 5, 10, 20, 30, 40, 50		
ultimata avarla		%fs	300		
ultimate overload		%fs	500		
output signal	transducer output sensitivity	mV/V	2±0.05 (standard), 1±0.05		
	transmitter output		4~20mA, 0.5~5Vdc, 0.5~4.5V ratiometric		
zero unbalance (for transducer)		%fso	≤ ±1.5		
combined error		%fs	$\leq$ ±1, $\leq$ ±2 (standard)		
creep (30min)		%fs	≤ ±0.2		
excitation for transducers		Vdc	≤ 15, typically 10Vdc		
power supply for transmitters		Vdc	19~21 (standard), 15~36		
input resistance (for transducers)		Ω	390±20		
output resistance (for transducers)		Ω	352±3		
load resistance (for transmitters)		Ω	350~1000		
insulation resistance		ΜΩ	≥ 5000 @50Vdc		
compensated temperature range		°C	-10 ~ <b>+</b> 55		
operating temperature range		°C	-35 ~ +85		
storage temperature range		°C	-35 ~ +85		
temperature coefficient of zero		%fso/10°C	≤ ±0.05		
temperature coefficient of span		%fso/10°C	≤ ±0.1		
load cell body	material		17-4PH stainless steel		
material of housing for electronics			304 stainless steel		
electrical interface			Φ6mm, 4-core shielded PVC cable with 14S/5P connector		
			color of the cable jacket = gray, cable length = 12m.	5	
environment p	rotection		IP67 (standard), IP68	6	
net weight			confirmed when ordering		

Notes: 1. For customized capacity, consult BCM..

- 2. "fs" refers to full scale pressure or rated pressure.
- 3. Other output sensitivity values between (1±0.05)mV/V and (2±0.05)mV/V are available on request.
- 4. Includes non-linearity, hysteresis and repeatability.
- 5. The number of cores in the cable depends on the type of output signal.

The cable for the output of 4~20mA has 2 cores or 3 cores;

The cable for the output of either  $1\sim5Vdc$  or  $1\sim10Vdc$  has 3 cores.

- 6. In case IP68 is selected, one must specify the following test conditions for the transducer in the purchasing order:
  - 1) How deep under water will the installed transducer be located?
  - 2) How long will the installed transducer continuously stay under water of that depth?

## **BCM SENSOR TECHNOLOGIES** BVBA

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website: www.bcmsensor.com

email: sales@bcmsensor.com

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## **Ordering Information**

	n (pos.) 1	: model											
6795													
	pos. 2:	: capacity											
	0.3t	20t											
	1t	30t											
	2.5t	40t											
	5t	50t											
	10t												
		pos. 3: output signal											
		2mV/V	standard)	) 1	ImV/V	4/20mA	1/5V	1/10V					
			pos. 4: combined error										
			1%fs 2%fs (standard)										
		pos. 5: excitation / power supply											
				for transducers: 15V									
				for transmitters: 19/21V (standard) 15/36V									
				pos. 6: environment protection									
				IP67 (standrad) IP68									
						pos. 7: customized specifications							
						"(*)" is ne	cessary or	nly if any	customized				
						parameter is	-						
						•	, , , , ,		3				
pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7							

#### **Examples of Ordering Code**

standard load pin:

6795-10t-2mV/V-2%fs-15V-IP67

· customized load pin:

6795-25t-4/20mA-1%fs-15/36V-IP68-(\*)

(\*): Customized capacity = 25t.

The listed dimensions, specifications and ordering information are subject to change without prior notice.



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email: sales@bcmsensor.com

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