

Double Foot Pedal – DFP

DTC`s DFPs – double foot pedals have been developed to provide the reliability required in demanding environmental conditions such as heavy duty industrial applications.

The high mechanical strength of the shaft and the unique sensing design make the pedals ideal for rigorous use in rugged, harsh environments.

The DFPs have been designed to accommodate standard and custom designed pedal lever.

The pedals are available as a stand-alone voltage version (VO) or in a CAN solution as a slave (S) combined with a foot pedal master for up to 3 slaves (see Foot Pedal datasheet). On request as a stand alone CAN version.

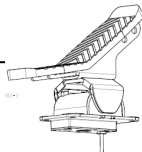


Main Features

- Contactless sensing – Hall effect
- Life greater than 3 million cycles
- 2 sensors for redundancy
- Optional rubber lever cover
- Integrated temperature compensation
- Protection Class IP67

Mechanical Data

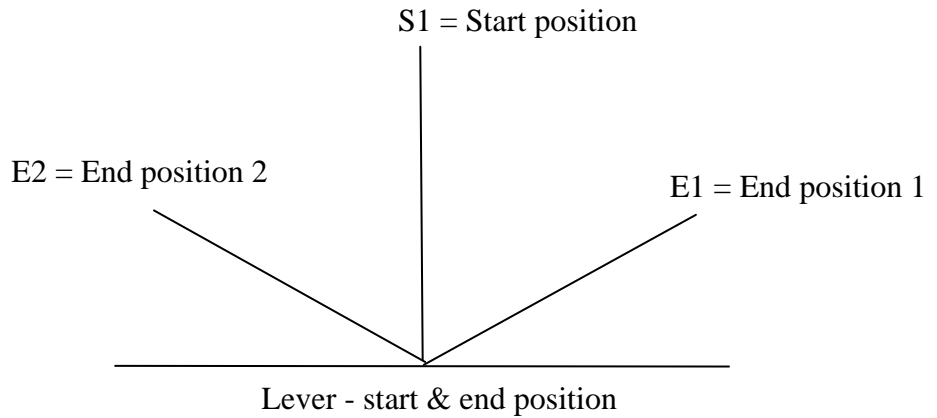
Life	> 3 million cycles
Operating temperature	- 30°C to 85°C
Operating force	60 N ± 20N
Load maximum	2000 N
Protection Level	IP 67
Deflection angle	± 14° tolerance ± 1°
Weight	3 kg
Housing	Steelplate / Aluminium



Electrical Data		DFP VO (voltage out)	DFP S (Slave)
Supply Ratings	Voltage range DC current	9V ... 36V* (ideal for 12 / 24 V battery systems) max. 85 mA	9V ... 36V* (ideal for 12 / 24 V battery systems) max. 85 mA
2 Voltage Outputs	Output 1 Output 2 Signals	0,5V ... 4.5V 4,5 V ... 0,5 V 2 release signals Release 1: active in zero position (low) Release 2: active in zero position (high)	n.a. n.a. Differential signal to connect to master
Dead band at end of travel		max. 5 %	max. 5 %
Other electrical Characteristics	EMI	≥ 100V/m	≥ 100V/m
Connection (Interface)		Harness with 8 pin connector (Fa. AMP econoseal L Mark II+)	Harness with 8 pin connector (Fa. AMP econoseal L Mark II+)

*36V tested for 5 minutes

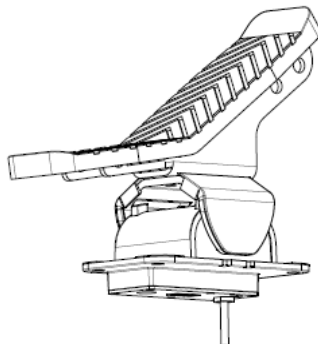
Double Foot Pedal – DFP



Ordering code		1	2	3	4	5	6	7	8	9
	Example	DFP	VO	14	14	60	VO8	D0	-	N
1	Type	DFP								
2	Function	S = Slave VO = Voltage output								
3	Deflection angle End position 1	E1 = 14 (+ 14° ± 1°)								
4	Deflection angle End position 2	E2 = 14 (- 14° ± 1°)								
5	Operation Force	60 N ± 20 N								
6	Output Signals	DFP VO VO8 = 0.5 ... 4.5V ± 0.1V (output 1) 4.5 ... 0.5V ± 0.1V (output 2) 2.5 V ± 0.2 V (neutral) DFP S (slave) VS = connection to master								
7	Release signal* (DFP VO)	00 = no function D0 = active at zero position (2 x low)								
8	reserved	-								
9	Lever Cover	N = no logo (standard version) C = customized logo								

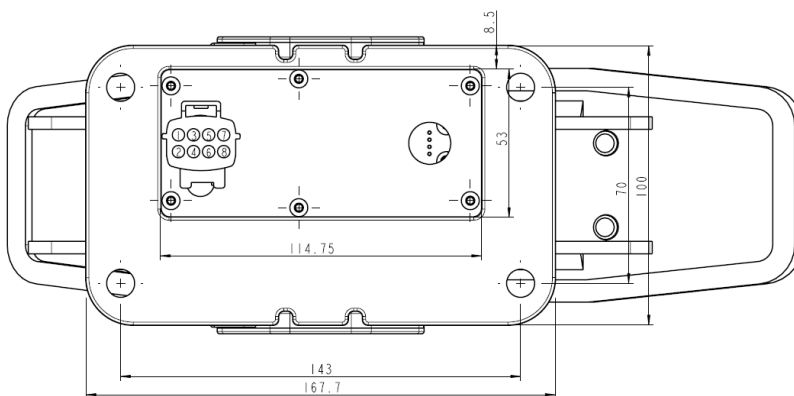
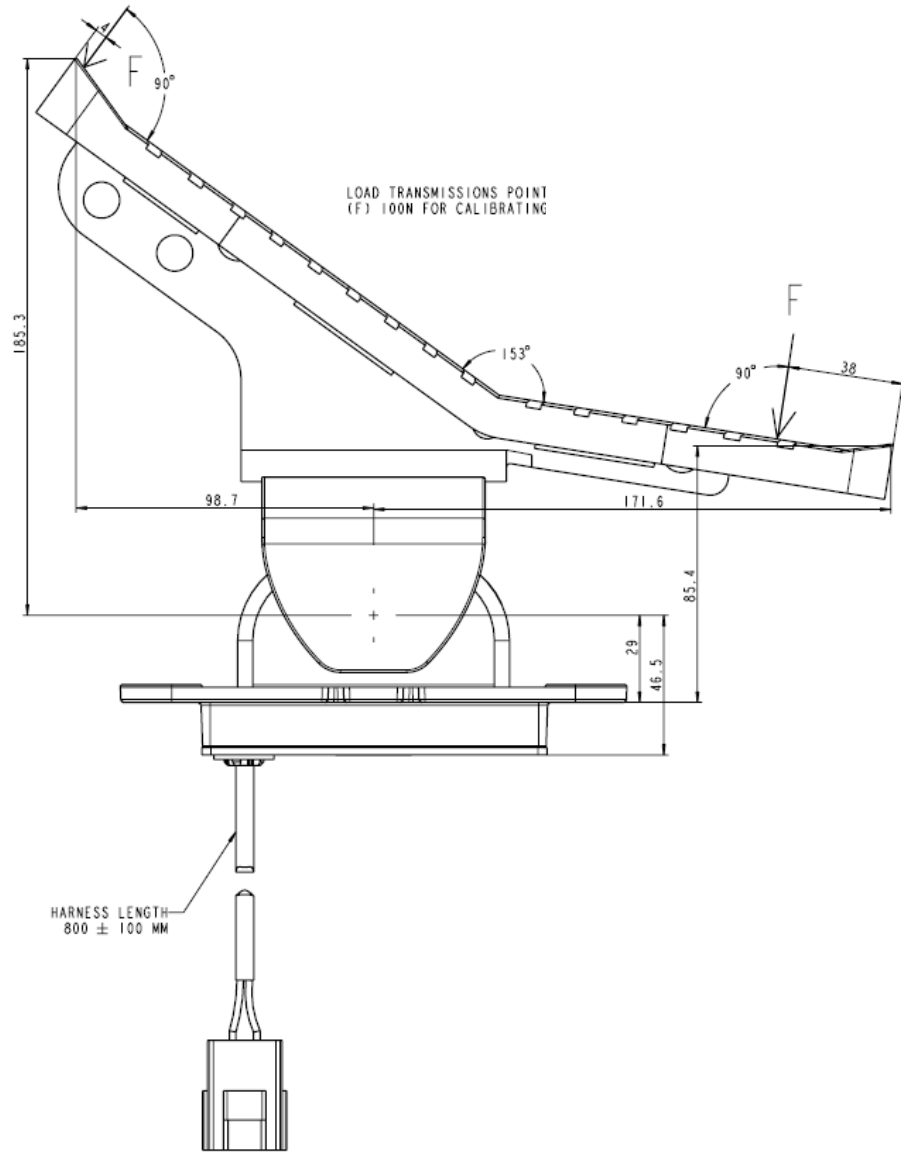
* recommended 20kΩ pullup to 5V

For more technical details and drawings see overleaf.



DFP VO

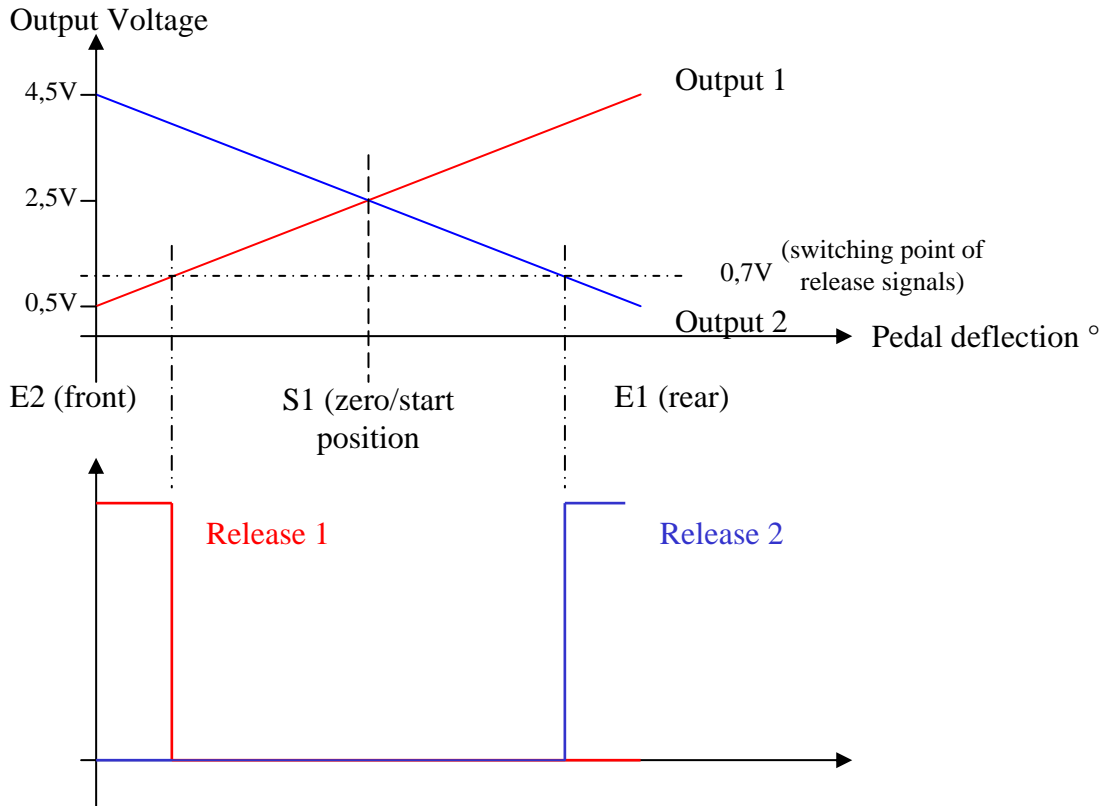
(voltage output)



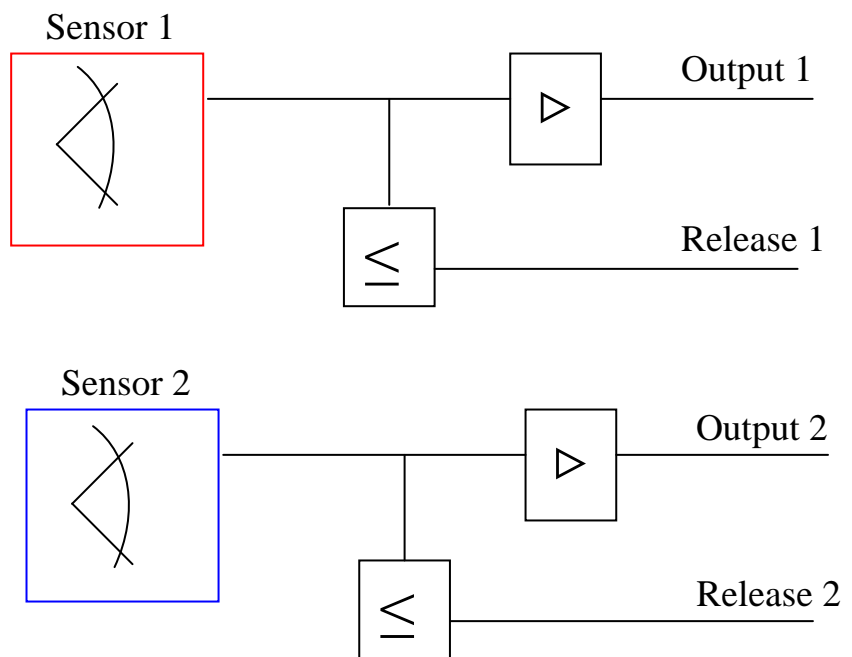
PIN	ASSIGNMENT
1	Analog Output 1
2	Free
3	Ubat
4	GND
5	Analog Output 2
6	Free
7	Release Signal 2
8	Release Signal 1

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Output switch signal DFP VO



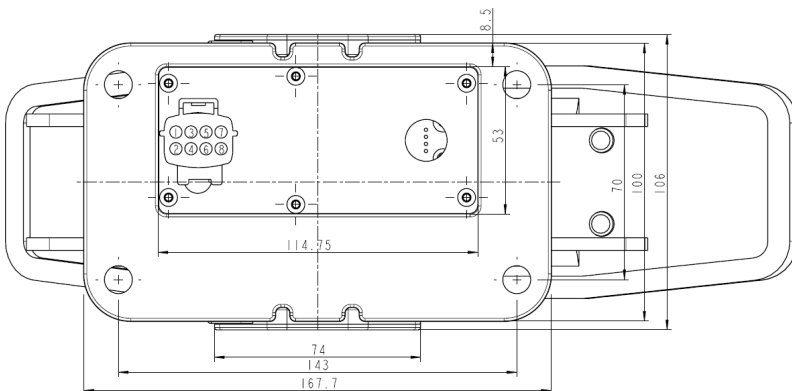
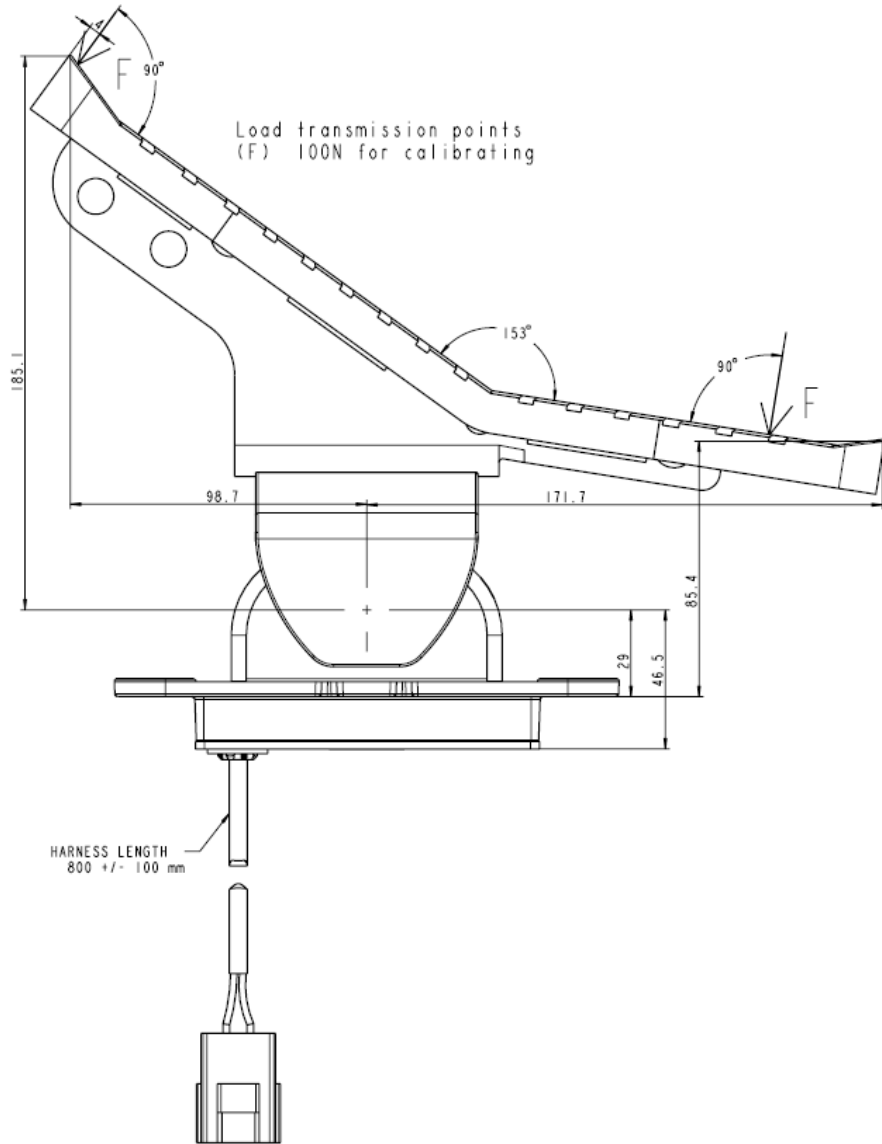
Release signal



Double Foot Pedal – DFP

DFP S

(CAN slave)



PIN	ASSIGNMENT
1	HAL 1A
2	HAL 1B
3	+24 V
4	GND
5	HAL 2A
6	HAL 2B
7	Rest Position -x
8	Free

x = SLAVE 1 and 2

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