

DFP - Double Foot Pedal



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 voltage version (VO) or as a CAN solution (CA).



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

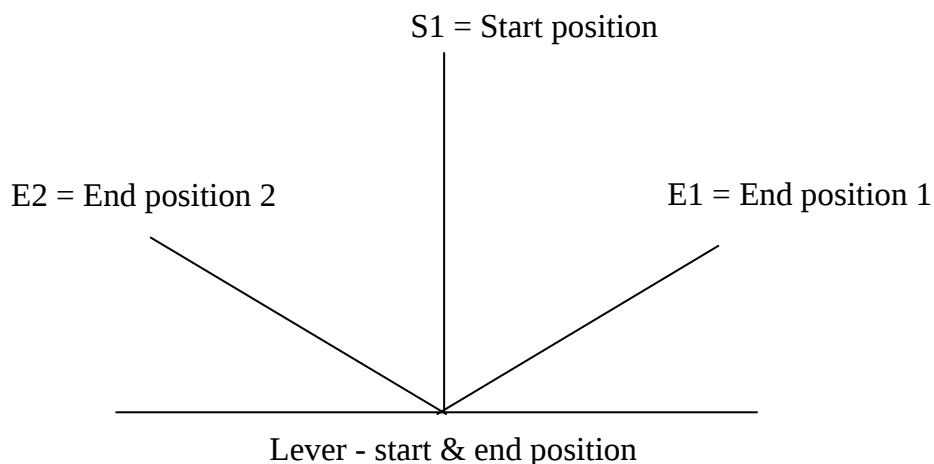
Life	> 3 million cycles
Operating temperature	- 30°C to 85°C
Operating force	60 N ± 20N
Load maximum	2000 N
Protection Level	IP 67
Deflection angle	± 14° tolerance ± 1°
Weight	3 kg
Housing	Steelplate / Aluminium
Pull-down resistor (Recommendation)	10kΩ

Electrical Data

		DFP VO (voltage out)	DFP CA (CAN)
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 Release1: active in zero position (low) Release 2: active in zero position (high)	n.a. n.a. CAN SAE J 1939
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. Tyco econoseal L Mark II+)	Harness with 4 pin connector (Fa. Tyco superseal)

*36V tested for 5 minutes

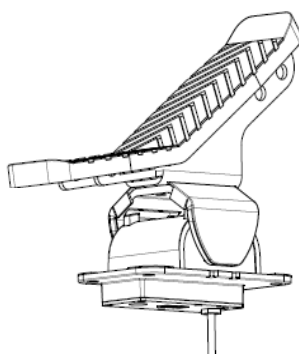
DFP - Double Foot Pedal



Ordering code		1	2	3	4	5	6	7	8
Example		DFP	VO	14	14	60	VO8	D0	N
1 Type	DFP								
2 Function	CA = CAN VO = Voltage output								
3 Deflection angle	E1 = 14 (+ 14° ± 1°) End position 1								
4 Deflection angle	E2 = 14 (- 14° ± 1°) End position 2								
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 CA	J19 = SAE J1939								
7 Release signal*									
DFP VO	00 = no function D0 = active at zero position (2 x low)								
DFP CA	N = not available								
8 Lever Cover	N = no logo (standard version) C = customized logo								

* recommended 20kΩ pullup to 5V

For more technical details and drawings see overleaf.

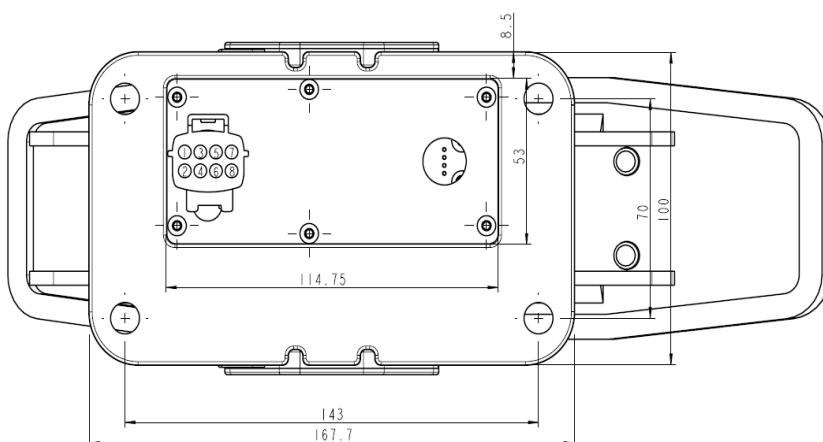
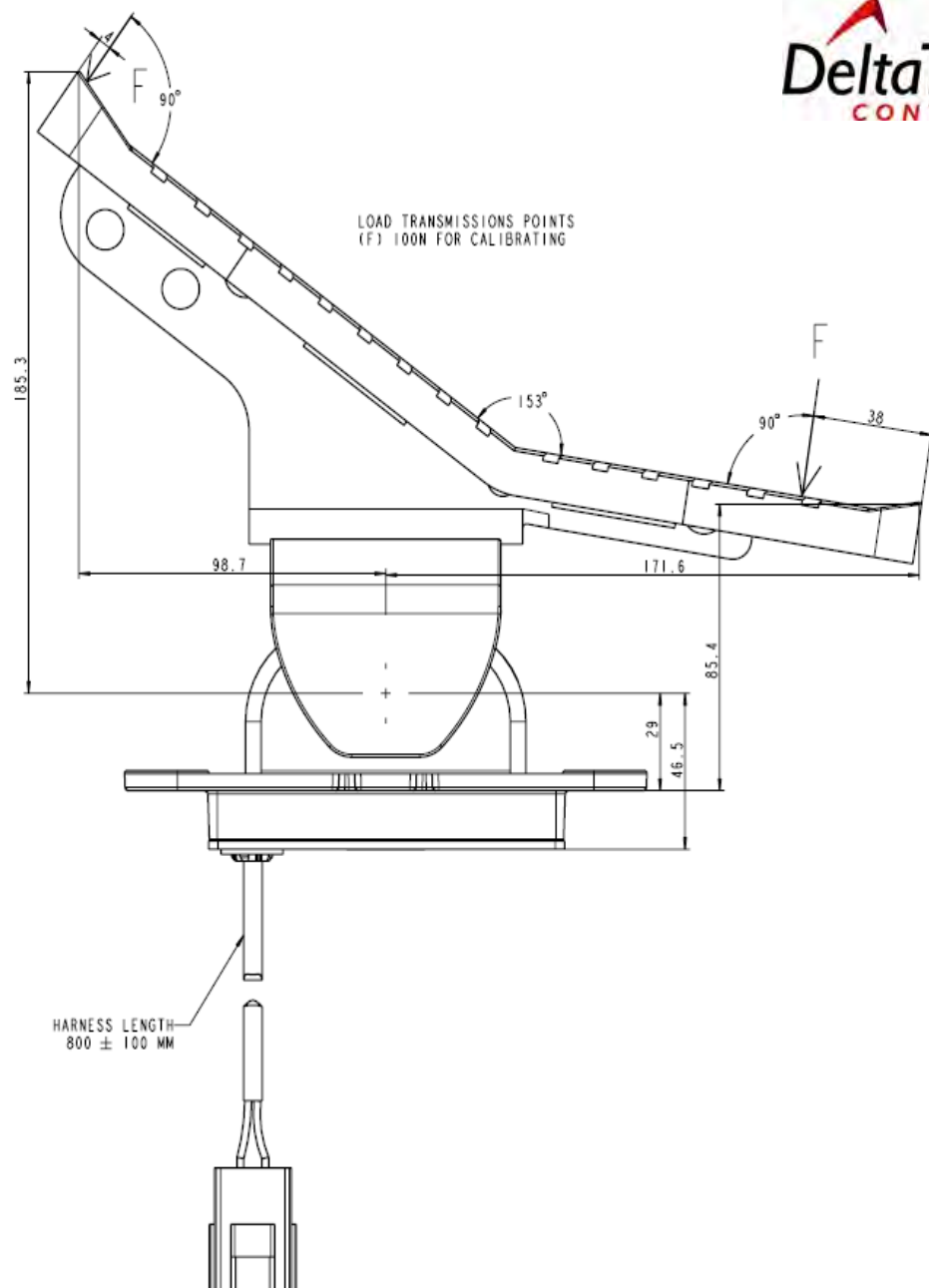


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DFP VO

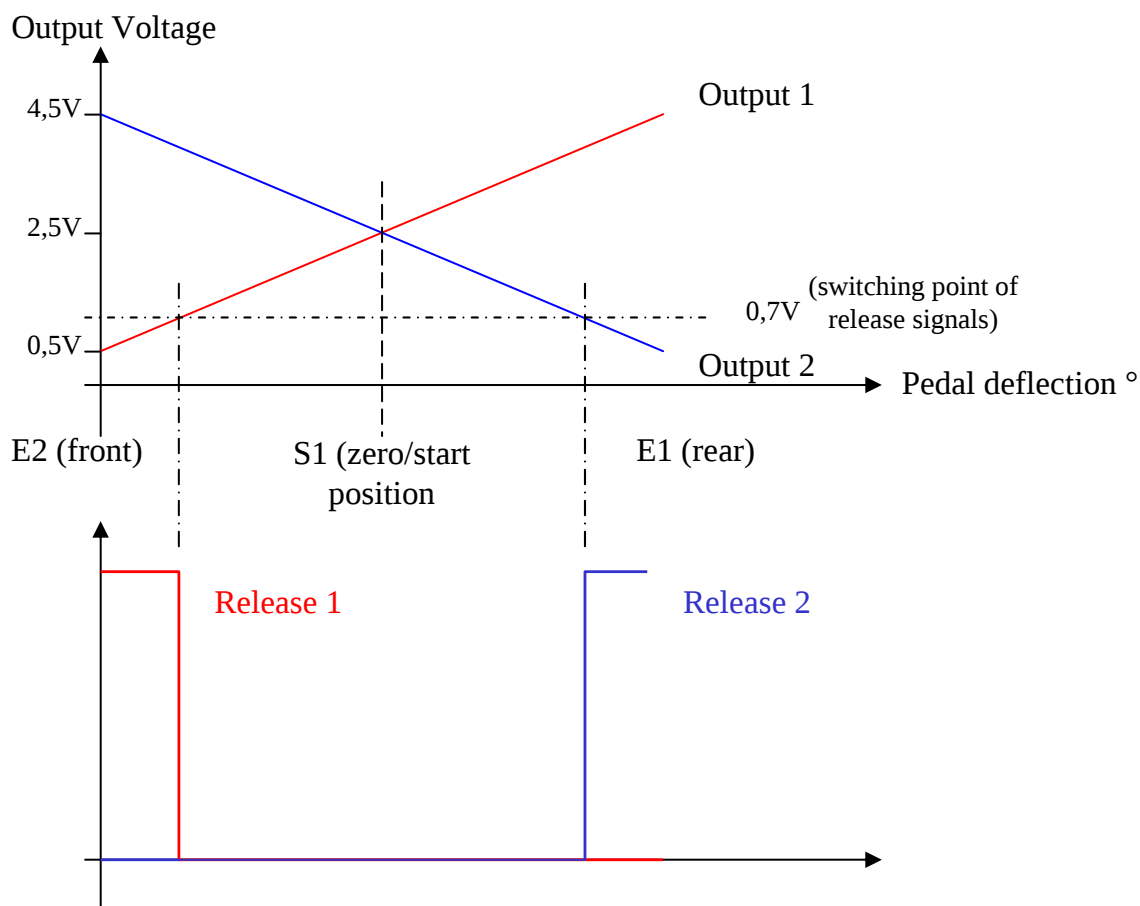
(voltage output)



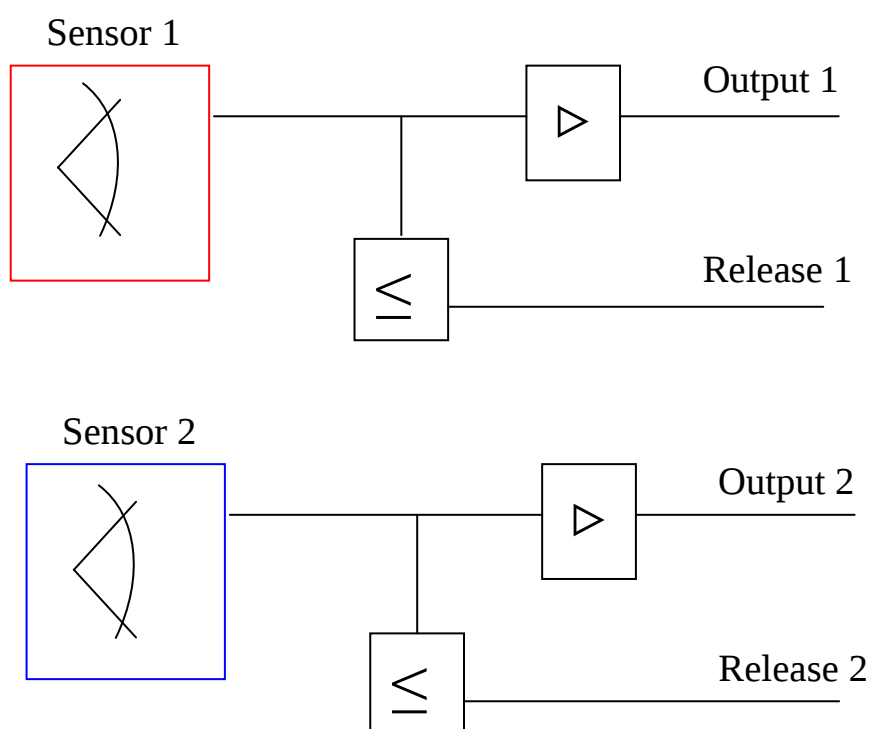
PIN	ASSIGNMENT
1	Analog Output 1
2	Free
3	Ubat
4	GND
5	Analog Output 2
6	Free
7	Release Signal 2
8	Release Signal 1

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Output switch signal DFP VO



Release signal

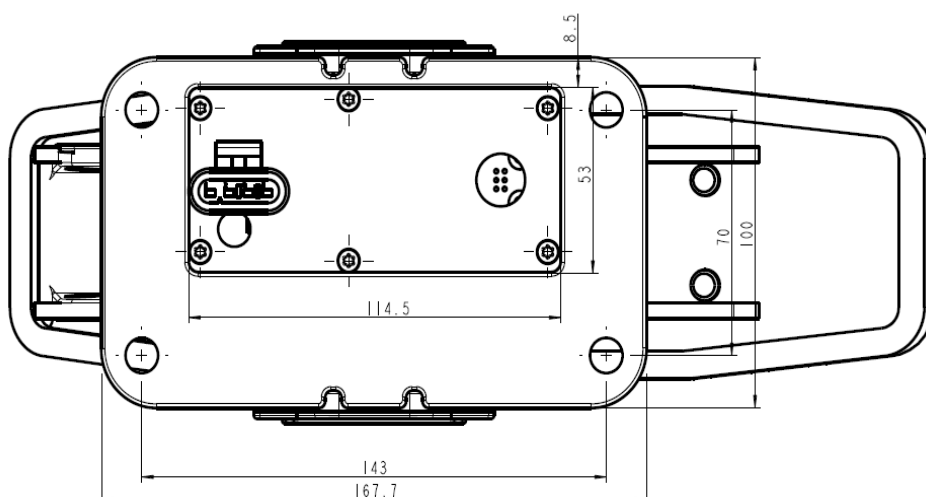
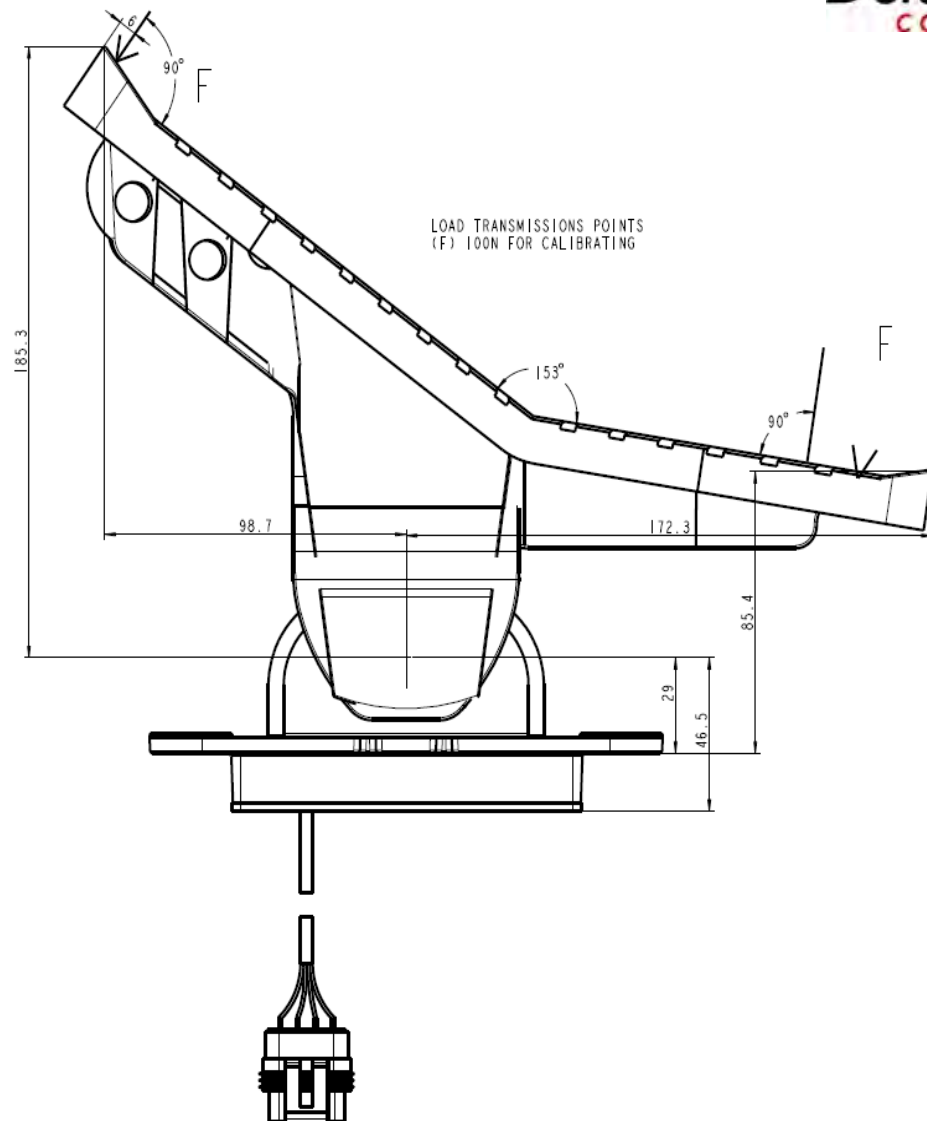


DFP - Double Foot Pedal



DFP CA

(CAN)



PIN	ASSIGNMENT
1	CAN high
2	CAN low
3	+24 V
4	GND

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