DelVal Series 83 Limit Switch Box

The DelVal Series 83 is a limit switch box, or valve position monitor, that mounts on a quarter-turn actuator on the NAMUR interface and signals valve position, with IP65 as standard and IP67 available.



Key data	
Weatherproof	IP65 as standard / IP67 available
Mounting	NAMUR
Temperature range	Standard -20°C to 80°C (-4°F to 176°F)
Switch type	Honeywell SPDT mechanical switches as standard

Standards and specifications

Features and specifications

Item	Detail
Feature	Aluminum die cast powder coated body
Feature	High corrosion resistance
Feature	Polycarbonate dome
Feature	Fully adjustable spring loaded cams for easy setting
Feature	Special printed circuit board to eliminate all wiring from the switch elements to terminals
Feature	Protection against short circuit
Feature	(2) 1/2 ” conduit entries
Feature	Namur mounting as standard
Feature	Weather proof IP 65 / IP 67
Temperature range	-20 °C to 80 °C (-4 °F to 176 °F)
Cable Entry	1/2” NPT (2)
Cable Entry	M20 x 1.5 (2 by adapter)
Cable Entry	3/4” ET (2 by adapter)
Brackets	Open (Metal)
Body Material	Aluminum

Electrical data

Switch and sensor options

Switch type	Switch make	Switch model	Rating	Qty
SPDT	HONEYWELL	V15T16-EZ200A05	16 Amps, 125 or 250 V AC, 220 V DC NO / NC	2
INDUCTIVE SENSOR				
RECTANGULAR	P & F	NJ2-V3-N	8V DC, 3 mA, Namur, NC	2
RECTANGULAR	P & F	NBB3-V3-Z4	5 - 60 V DC, 100 mA, 2 Wire, NO	2
CYLINDRICAL	P & F	NJ2-12-GM-N	8V DC, Namur, NC	2
CYLINDRICAL	P & F	NCB2-12GM35-NO	8V DC, 3 mA, Namur, NC	2
CYLINDRICAL	P & F	NCB4-12GM40-Z0	5 - 60 V DC, 100 mA, 2 Wire, NO	2
CYLINDRICAL	P & F	NCN4-12GM35-NO	8V DC, 3 mA, Namur, NC	2
SLOTTED	P & F	SLOTTED SJ 3.5 N	8V DC, 3 mA, Namur, NC	2

Dimensions and weights

Metal mounting bracket (mm)

Actuator size	A	B	C	D
045 TO 100	60	45	80	90
115 TO 200	85	55	130	145

Key to dimension letters

Item	Detail
A	Bracket width across the two legs
B	Overall bracket height
C	Centre distance of the outer mounting holes
D	Overall bracket length

Limit switch box (mm, inch in brackets)

Item	Detail
Width left of centreline	69.5 (2.74)
Width right of centreline	54.5 (2.15)
Height, top of dome to underside of body	110.5 (4.35)
Overall height	143.5 (5.65)
Shaft projection below base	29 (1.14)
Shaft end step length	6 (0.24)
Shaft diameter	Ø9 (Ø0.35)
Shaft tip length	4 (0.15)
Body width (bottom view)	119 (4.69)
Mounting holes	M5x8(0.31)DEEP TAPPED HOLES 4 Nos. ON 50 (1.97) PCD
Shaft tip width (bottom view)	4 (0.15)
Conduit entry	1/2" NPT PLACES

Materials of construction

Parts list

Sr. no.	Component description	Material / make	Qty
01	BODY	ALUMINUM	1
02	TOP COVER	ALUMINUM	1
03	DOME COVER	POLYCARBONATE	1
04	DOME INDICATOR	ABS PLASTIC	1
05	SHAFT	SS 316	1
06	CAM	ABS PLASTIC	2
07	CAM GEAR	DELRIN	2
08	SPRING	SPRING STEEL	1
09	LIMIT SWITCH	HONEYWELL	2
10	PCB	GLASS EPOXY	1

For a quotation, send the size, pressure rating, materials, operator and quantity to UEC by phone, WhatsApp or email. Inch and pound tables are on the product page at www.unitedengg.co.in/valves/delval/series-83-limit-switch-box. Data as published by DelVal Flow Controls; DelVal and DelTorq are trademarks of DelVal Flow Controls.