

Datasheet – Limit Switchbox

Limit Switchbox ready to suit the most extreme environments in the oil and gas industry all over the world

Product: Series 500 Type: Limit Switchbox Model: S5-LS-1012V7-V1

General specifications

Val Controls Series 500 – Limit Switchbox in AISI 316 stainless steel enclosure fitted with limit switches. For linear as well as rotary valve or actuator.

The Series-500 limit switchboxes are manufactured with Val Controls' unique mechanical adjustment device, which does not require any use of tools. It also makes sure that the limit switchbox is Adjustable 360° CW/CCW.

The Val Controls Series-500 switchbox is a compact unit, which makes further mounting units unnecessary.

Certification for use in hazardous area according to ATEX 94/9-EC

EX type : Intrinsically safe
Ex-identification : II 1G EEx ia IIC T4/T5/T6
EC type examination certificate : LCIE 03 ATEX 6359 X
Ambient temperature : T4/T5/T6 -20°C to 85/60/45°C

Electrical connection

Gland entries : 2 x M20 (no glands included)
Terminals : 0.2 – 2.5 mm²

Enclosure: Material and construction

Dimensions : LxHxW 150x100x102mm
Weight : 1,5 kg
Enclosure : AISI-316 stainless steel
Ingress Protection : IP-66/67 according to EN 60529
Impact test : IK-08 according to EN 50102

Drawings and documentation

Dimensional drawing : DS5-DD-01
Wiring diagram : DS5-IE-01
User manual : DS5-UM-01



Limit Switch specifications

Switch type : P&F NCN4-12GM35-N0

General specifications

Switching element function NAMUR NC
Output polarity NAMUR

Nominal ratings

Nominal voltage U_0 8 V
Switching frequency f_0 ... 800 Hz
Hysteresis H 1 ... 10 typ. 5 %
Reverse polarity protection protected against reverse polarity
Short-circuit protection yes
Indication of the switching state all direction
LED, yellow

Model no. S5-LS-1012V7-V1

Product name	S5	: Series 500
Type	LS	: Limit Switchbox
Limit Switch type	101	: P&F NCN4-12GM35-N0
No. of limit switch	2	: 2 switches
Adapter	V	: VDI/VDE 3845 – NAMUR
Mounting	7	: F07, ISO 5211/1
Visual indicator	V1	: 90° blue/white

Current consumption

Measuring plate not detected ≥ 3 mA
Measuring plate detected ≤ 1 mA

Standard conformity

EMC in accordance with IEC / EN 60947-5-2:2004; NE 21
Standards DIN EN 60947-5-6 (NAMUR)

Ambient conditions

Ambient temperature -25 ... 100 °C (248 ... 373 K)

Mechanical specifications

Housing material Stainless steel
Sensing face PBT