

Limit switch

For reliable position detection of mechanical components in rough environments



IP 67 - qualified for offshore applications

LIMIT SWITCH

For reliable position detection of mechanical components in rough environments

Introduction JW-S681 / JW-S682

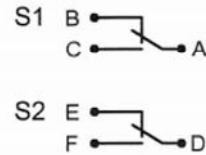
This limit-switches are used in rough environments and safety based systems. It is a very robust sensor, which is able to detect reliable any mechanical movement in its position. It will route these control signals potential free via two switching outputs.

Shell materials and switch force

These switches and the connector are made out of stainless steel (Mat.: 1.4571). The switch force is 33 N / 18 N.

Techn. data	JW-S681	JW-S682
Mechanical		
Switch force	33 N (+/- 5 N)	18 N (+/- 3 N)
Restoring force	18 N min.	8 N min.
Forward motion way	1,0 mm +/- 0,5 mm	
Key way	0,2 mm max.	
Switch cycles	> 1.000.000 cycles	
Follow up way	4,0 mm min.	
Material shell / plunger	1.4571 acc. „DIN EN10088-3 (formerly up to 2005: DIN 17440)	
Electrical		
Switching capacity	1,5 A / 28 VDC resistive load 0,7 A / 28 VDC Inductive load	
Insulation resistance	> 50 MOhm / 500 VDC acc. EN 50178	
General		
Operating temperature	- 25 °C till + 85 °C	
Protection class	IP 67 acc. EN 60529	
Accessories	2 pc. screw nut 16 x 1(1.4305), 2 pc. serrated lock washer in acc. to DIN 6797-A 2 with Internal teeth, protection cap for the connector	
Quality inspection	Manufacturer test certificate M in acc. to DIN 55350 part 18.4.2.2"	

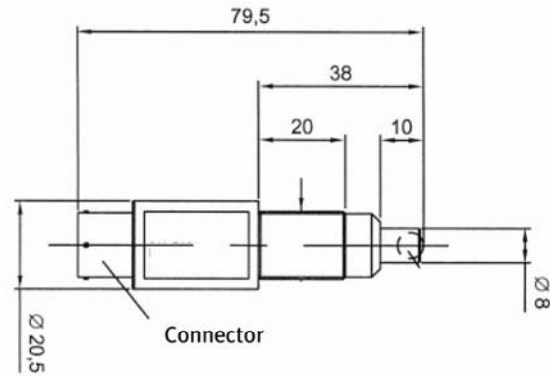
Connection diagram



The switches are connect via a 6-pole hermetically sealed stainless steel connector with bayonet coupling. This connector is resistant against aggressive mediums according to the specifications as follows:

MIL-C-26482G Series II – NFC93422/HE302 – NFL54130 and BES/SST/ELC321.

Standard design



Torque for screws = 30 Nm

References

This limit-switch is used in safety based systems in submarines for surveillance of mechanical components.

Examples of applications

- position detection of pilot valves
- indication of locking devices
- offshore signal device
- endposition surveillance of motorized cable drums
- surveillance device in mining areas
- sensor device of mechanical components in plant automation

If you would like more detailed information the Team at JOWO – Systemtechnik GmbH will be delighted to help.

JOWO - Systemtechnik GmbH
Lange Wand 12

D - 27753 Delmenhorst
Germany

phone +49 (0) 42 21 - 91 57 15
fax +49 (0) 42 21 - 91 57 17
mail info@jowosy.de
web www.jowosy.de

