

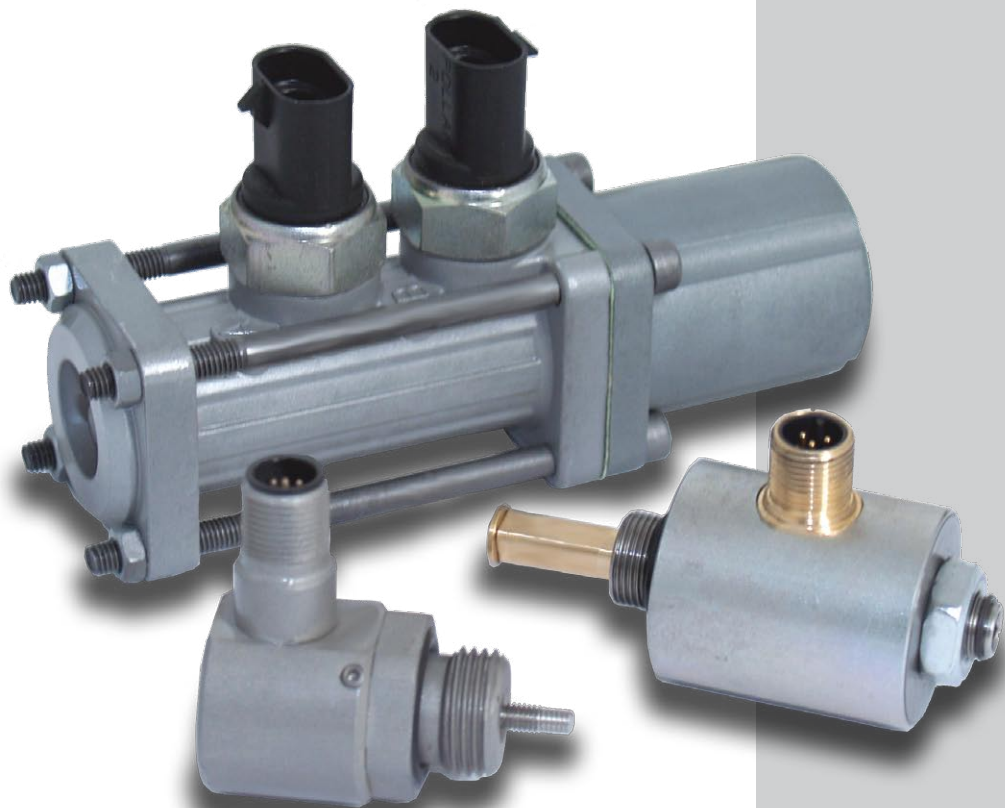
NEW

SENSORS

Spool position sensors kit



**A simple and flexible solution for
all the applications**



SPSD - hall effect digital sensor



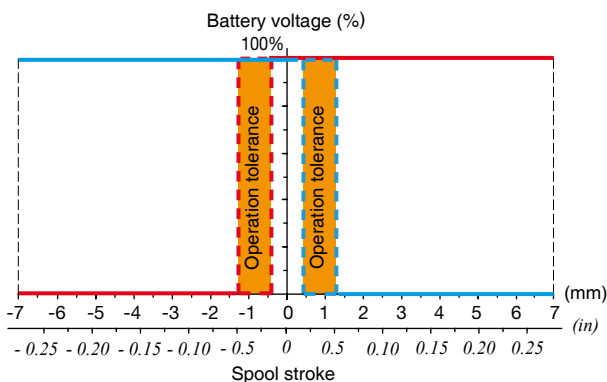
General

The SPSPD position sensor converts the spool movements into an electric digital signal.
 Contactless technology guarantees a long mechanical life.
 Available for the complete range of valves.
 Typical application: cranes, telehandlers, aerial platforms.

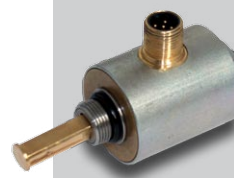
Working conditions and features

Voltage supply range..... : from 9 to 32 VDC
 Current absorption..... : <10 mA (no load)
 Mechanical life : 3×10^6 cycles
 Working temperature : $-40/+100^{\circ}\text{C}$
 Max. electrical stroke : ± 10 mm (0.393 in)
 Max. mechanical stroke : $\pm 10,5$ mm (0,413 in)
 Working pressure : 350 bar (5100 psi)
 Ingress protection rating : IP67/IP69K
 Conformity with standard:
 EMC..... : ISO 13766, ISO 14982
 Vibrations, Shock, Bumps : IEC 68-2-6,-27,-29
 Output signal:
 Type of signal..... : PNP
 Max. current..... : 6 mA

Output signal



SPSL - hall effect linear sensor



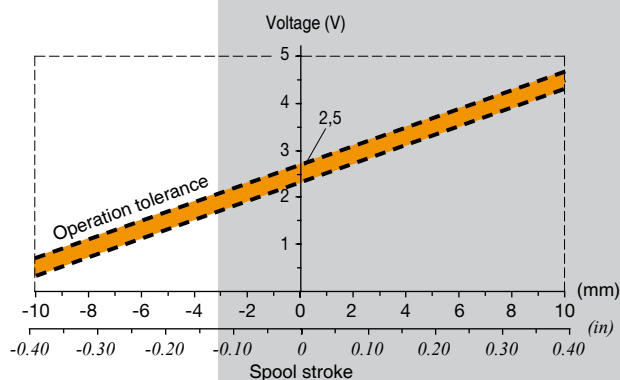
General

The SPSL position sensor converts the spool movements into a voltage linear signal.
 Contactless technology guarantees a long mechanical life.
 Available on the wide range of valves.
 Typical application: cranes, telehandlers, aerial platforms.

Working conditions and features

Voltage supply range..... : from 9 to 32 VDC
 Current absorption..... : <10 mA (no load)
 Mechanical life : 3×10^6 cycles
 Working temperature : $-40/+100^{\circ}\text{C}$
 Max. electrical stroke : ± 10 mm (0.393 in)
 Max. mechanical stroke : $\pm 10,5$ mm (0,413 in)
 Working pressure : 350 bar (5100 psi)
 Ingress protection rating : IP67/IP69K
 Conformity with standard:
 EMC..... : ISO 13766, ISO 14982
 Vibrations, Shock, Bumps : IEC 68-2-6,-27,-29
 Output signal:
 Signal range : 0.5-4.5V
 Linearity (on all stroke) : $\pm 5\%$
 Spool in neutral : 2,5 \pm 0,2V
 Max. current..... : 1 mA

Output signal



Coupling with directional valve range

Valve type		Sensor type			
Monoblock type	Stroke	8MG3	8LZ3	SPSD	SPSL
SDM080	±5.5 mm (±0.216 in)	•		•	•
SDM081	±5.5 mm (±0.216 in)	•		•	•
SDM102	±5.5 mm (±0.216 in)	•		•	•
SD4	±5.5 mm (±0.216 in)	•		•	•
SD5	±5.5 mm (±0.216 in)	•		•	•
SDM110	±5.5 mm (±0.216 in)	•		•	•
SDM100	±6.5 mm (±0.256 in)	•		•	•
SDM122	±7 mm (±0.276 in)	•		•	•
SDM143	±7 mm (±0.276 in)	•		•	•
DLM142	±7 mm (±0.276 in)	•		•	•
SD11	±7 mm (±0.276 in)	•		•	•
SD14	±7 mm (±0.276 in)	•		•	•
SD18	±10 mm (±0.394 in)	•		•	
Sectional type	Stroke				
SD6	±5.5 mm (±0.216 in)	•		•	•
DLS7	±5.5 mm (±0.216 in)	•		•	•
SDS100	±6.5 mm (±0.256 in)	•		•	•
SD8	±7 mm (±0.276 in)	•		•	•
DLS8	±7 mm (±0.276 in)	•		•	•
SDS150	±7 mm (±0.276 in)	•		•	•
SD16	±7 mm (±0.276 in)	•		•	•
SDS180	±7 mm (±0.276 in)	•		•	•
SD25	±10 mm (±0.394 in)	•		•	•
Load Sensing type	Stroke				
DPC130	±7 mm (±0.276 in)			•	•
DPC38	±8 mm (±0.315 in)			•	•
Flow Sharing type	Stroke				
DPX100	±6.5 mm (±0.256 in)	•		•	•
DPX160	±8 mm (±0.315 in)	•		•	•
diverter valves	±2.5 mm (±0.098 in)		•		
special applications	±2.5 mm (±0.098 in)		•		