

Sensors

Selection Guide



Advanced sensors enhance productivity and profitability:

The latest range of advanced sensors from Parker Hannifin, the global leader in motion and control technologies, has been introduced to help manufacturers and end users of mobile hydraulic systems improve long term operating performance while reducing overall life cycle costs. Parker offers a full range of pressure, temperature, proximity, speed, rotary and tilt sensors. The sensors use proven, reliable technology, and are extremely compact and lightweight. They have been developed to meet the needs of the mobile and industrial sectors, where they can help to enhance equipment productivity and profitability.



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Product Features:

- tough stainless steel or plastic housings
- sealed electrical connectors
- easy to install
- protected against shock, vibration and electro-magnetic interference
- wide range of operating conditions (IP67)
- excellent stability
- reduces build costs and maintenance costs
- full technical and after sales support



ENGINEERING YOUR SUCCESS.

Tip, tilt, and level sensors

Parker offers a variety of switches and sensors to meet your leveling needs.

Choose the tilt sensor that meets your requirements.

The RM50 rolling magnet switch will indicate a 10° or greater tilt in either direction. For proportional indication of the degree of tilt, use our single axis ATS50 sensor or dual axis ATS90 sensor.

Features	RM50	ATS50	ATS90
Switched output	1 A	No	No
Proportional output	No	.5-4.5 vdc	.5-4.5 vdc
No. of axis	1	1	2
Working angle (°)	±10	±10	±10
Part number	01715	01759	01716



RM50

ATS50

ATS90

Rotary angle sensors

Sophisticated Hall-effect technology makes any of our rotary sensors robust and reliable.

Features	RF50	RS52	RS60	RS70
Friction	Yes	No	No	No
Spring return	No	Yes	Yes	No
.5-4.5 vdc signals	1	1	2	2
Working angle (°)	90	90	120	170
Coupling	1/4" shaft	5/16" tang	Ø7/8" thru	5/16" hex
Part number	01705	01709	01708	01707

A variety of working angles and shaft types to fit your specifications.

The RF50 is a friction rotary control with 90° travel. The RS52 is a spring-loaded 90° sensor.

For added safety, we offer two sensors with redundant outputs.

The RS60 is a spring-loaded sensor with 120° travel that accepts thru shafts. The RS70 is a spring-loaded sensor with 170° travel.



RF50

RS52

RS60

RS70



Speed sensors (rotary)

Different mounting styles for the versatility to be used in any application.

Gear tooth type speed sensors come in two mounting styles.

The GS50 is a flange mounted speed proximity sensor with an integral o-ring for sealed installations. The GS60 is a threaded barrel speed proximity sensor which makes installation and adjustment simple.

Features	GS50	GS60
Mounting	Flange	5/8"-18
Frequency range	0-10KHz	0-10KHz
Supply voltage	5-16 vdc	5-24 vdc
Air gap (max)	.12"	.20"



GS50



GS60

Ferrous proximity sensors

Reliable, simple, but effective reed switch technology has superior mechanical and electronic characteristics.

Features	FP2000	FP3000	FP4000
Switched output	300 mA	300 mA	5 A
Switch type	NO	NO	NO/NC
Max voltage	100 vdc	100 vdc	30 vdc
Air gap (max)	.45"	.70"	.28"
Part number	01695	01699	01703

Ferrous proximity sensors for when you need to know where it is.

The FP2000 and FP3000 are flange mounted proximity switches which activate when a ferrous metal object comes into range. The FP4000 is a high powered version with an internal relay.



FP2000



FP3000



FP4000

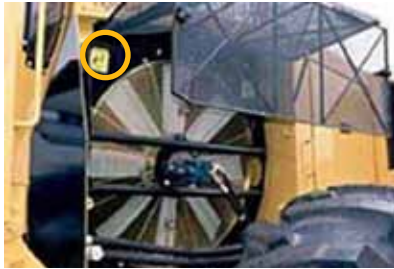


Temperature sensors

Active temperature sensors provide better resolution and easier installation for your system.

Multiple interface and connector choices to fulfill your requirements.

The IQAN-ST temperature sensors cover a range of -50°C to +150°C. There are three thread types with two connector options. The signal range is between 0.25 - 4.75 VDC over the full scale of the sensor.



Features	ST-G-B	ST-U-D	ST-M-B
Thread interface	G1/4 BSP	SAE-6	M10
Connector	Bosch	Deutsch	Bosch
Supply voltage	5 vdc	5 vdc	5 vdc
Part number	20073657	20073658	20073659



ST-G-B

ST-U-D

ST-M-B

Pressure sensors

Our reliable pressure transducers monitor the condition of your hydraulic system.

Features	SP035-B	SP035-D	SP500-B	SP500-D
Pressure range	35 Bar (511 PSI)		500 Bar (7300 PSI)	
Thread interface	G1/4 BSP	SAE-6	G1/4 BSP	SAE-6
Connector	Bosch	Deutsch	Bosch	Deutsch
Supply voltage	5 vdc	5 vdc	5 vdc	5 vdc
Part number	5020026	2820008	5020027	2820009

Two pressure ranges meet your low and high pressure needs.

The IQAN-SP is offered with two interface/connector combinations. The signal range is between 0.5 - 4.5 VDC over the full scale of the sensor.



SP035-B

SP035-D

SP500-B

SP500-D

