

Sea Q series



Features:







- Front side has IP67 protection rating; back side has IP65 protection rating;
- Double layer reinforced anti-fogging glass;
- 316 Stainless steel bezel with convex glass;
- Quick and easy to install by terminal;
- Selection of red or yellow backlight;
- Connect directly without extra resistors for 12/24V working voltage.

Art. No.	JYS0302	JYS0258
Model	I	II
Length of wire	400 mm	400 mm

FUEL LEVEL								
	Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
	KF10020	FPFR-BS-0-190	0~190Ω		SS 316	Empty-Full	12V/24V	Φ52mm
	KF10022	FPFR-BS-240-33	240~33Ω					
	KF10114	FPFR-WS-0-190	0~190Ω					
	KF10115	FPFR-WS-240-33	240~33Ω					
	KF10026	FPFR-BN-0-190	0~190Ω		SS 316 in black			
	KF10027	FPFR-BN-240-33	240~33Ω					







WATER LEVEL



Art. No.	Model	Signal	Picture Indicating		Bezel	Display Range	Working Voltage	Installation Dimension
KF11015	FPWR-BS-0-190	0~190Ω			SS 316	Empty-Full	12V/24V	Φ52mm
KF11017	FPWR-BS-240-33	240~33Ω						
KF11110	FPWR-WS-0-190	0~190Ω						
KF11111	FPWR-WS-240-33	240~33Ω						
KF11016	FPWR-BN-0-190	0~190Ω			SS 316 in black			
KF11018	FPWR-BN-240-33	240~33Ω						










HOLDING TANK




Art. No.	Model	Signal	Picture Indicating		Bezel	Display Range	Working Voltage	Installation Dimension
KF12010	FPGR-BS-0-190	0~190Ω			SS 316	LOW-FUL	12V/24V	Φ52mm
KF12012	FPGR-BS-240-33	240~33Ω						
KF12106	FPGR-WS-0-190	0~190Ω						
KF12107	FPGR-WS-240-33	240~33Ω						
KF12011	FPGR-BN-0-190	0~190Ω			SS 316 in black			
KF12013	FPGR-BN-240-33	240~33Ω						


WATER TEMP.









OIL TEMP.									
									
Art. No.	Model	Signal	Picture Indicating		Bezel	Display Range	Working Voltage	Installation Dimension	
KF14026	FPYR-BS-50-150	Matched with KUS temperature sensor			SS 316	50~150℃	12V/24V	Φ52mm	
KF14108	FPYR-WS-50-150				SS 316				
KF14027	FPYR-BN-50-150				SS 316 in black				









VOLTMETER



























Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF13017	FPVR-BS-8-16	8~16V		SS 316	8~16V	12V	Φ52mm
KF13107	FPVR-WS-8-16						
KF13018	FPVR-BN-8-16			SS 316 in black			
KF13016	FPVR-BS-18-32	18~32V		SS 316	18~32V	24V	
KF13108	FPVR-WS-18-32						
KF13019	FPVR-BN-18-32			SS 316 in black			







OIL PRESSURE							
Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF15036	FPPR-BS-0-5	10~184Ω		SS 316	0~5Bar	12V/24V	Φ52mm
KF15112	FPPR-WS-0-5			SS 316			
KF15037	FPPR-BN-0-5			SS 316 in black			
KF15038	FPPR-BS-0-10			SS 316	0~10Bar		
KF15113	FPPR-WS-0-10			SS 316			
KF15039	FPPR-BN-0-10			SS 316 in black			







RUDDER ANGLE								
	Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
	KF09019	FMRR-BS-87-900	87~900Ω, Matched with JSM4480 rudder angle sensor.		SS 316	R-L	12V/24V	Φ52mm
	KF09110	FMRR-WS-87-900			SS 316 in black			
KF09020	FMRR-BN-87-900			SS 316				
KF09021	FMRR-BS-0-190	0~190Ω, Matched with KE41000 rudder angle sensor.		SS 316				
KF09111	FMRR-WS-0-190			SS 316 in black				
KF09022	FMRR-BN-0-190			SS 316 in black				













* Installation: Customers can easily adjust the deviations caused by assembling or sensor signal difference.







TRIM									
	Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension	
	KF09023	FPIR-BS-0-190	0~190Ω		SS 316	DOWN-UP	12V/24V	Φ52mm	
	KF09113	FPIR-WS-0-190			SS 316 in black				
KF09024	FPIR-BN-0-190			SS 316 in black					

TRIM									
	Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension	
	KF09030	FPIR-BS-0-190	0~190Ω		SS 316	DOWN-UP	12V/24V	Φ52mm	
	KF09116	FPIR-WS-0-190			SS 316 in black				
KF09031	FPIR-BN-0-190			SS 316 in black					










DIGITAL VOLTMETER							
Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF23005	FEVR-BS-9-32	9~32V		SS 316	9~32V	12V/24V	Φ52mm
KF23105	FEVR-WS-9-32						
KF23006	FEVR-BN-9-32			SS 316 in black			







DIGITAL WATER TEMP.							
Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF24006	FETR-BS-25-120	Matched with KUS temperature sensor		SS 316	25~120℃	12V/24V	Φ52mm
KF24101	FETR-WS-25-120						
KF24007	FETR-BN-25-120			SS 316 in black			

DIGITAL AMMETER													
	Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension					
	KF26008	FEAR-BS±50	Matched with KUS current pick-up unit		SS 316	±50A	12V/24V	Φ52mm					
	KF26105	FEAR-WS±50											
	KF26009	FEAR-BN±50			SS 316 in black				±80A				
	KF26010	FEAR-BS±80	Matched with KUS current pick-up unit		SS 316								
	KF26106	FEAR-WS±80											
	KF26011	FEAR-BN±80			SS 316 in black	±150A							
	KF26006	FEAR-BS±150	Matched with KUS current pick-up unit		SS 316								
	KF26104	FEAR-WS±150											
	KF26007	FEAR-BN±150			SS 316 in black								

HOURMETER							
Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF39002	FCUR-BS	N/A		SS 316	0~99999	12V/24V	Φ52mm
KF39101	FCUR-WS			SS 316			
KF39003	FCUR-BN			SS 316 in black			

DIGITAL OIL PRESSURE

							
Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF15044	FEPR-BS-0-5	10~184Ω		SS 316	0~5Bar	12V/24V	Φ52mm
KF15116	FEPR-WS-0-5			SS 316			
KF15045	FEPR-BN-0-5			SS 316 in black			
KF15040	FEPR-BS-0-10	10~184Ω		SS 316	0~10Bar	12V/24V	Φ52mm
KF15114	FEPR-WS-0-10			SS 316			
KF15041	FEPR-BN-0-10			SS 316 in black			

DIGITAL FUEL LEVEL									
	Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension	
	KF20002	FEFR-BS-4-20	4~20mA		SS 316	0~100%	12V/24V	Φ52mm	
	KF20100	FEFR-WS-4-20			SS 316				
KF20003	FEFR-BN-4-20			SS 316 in black					

* To match with digital fuel level gauge, the level sensor need to be customized separately.

4 LED ALARM GAUGE















Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF79003	FDQR-BS	Switch Signal		SS 316	N/A	12V/24V	Φ52mm
KF79104	FDQR-WS			SS 316			
KF79005	FDQR-BN			SS 316 in black			



TACHOMETER












Art. No.	Model	Speed Ratio	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF07018	FMHB-BS-3KL	0.5~250.0		SS 316	0~3000rpm	12V/24V	Φ85mm
KF07112	FMHB-WS-3KL						
KF07019	FMHB-BN-3KL			SS 316 in black			
KF07020	FMHB-BS-4KL	0.5~250.0		SS 316	0~4000rpm		
KF07113	FMHB-WS-4KL						
KF07021	FMHB-BN-4KL			SS 316 in black			
KF07012	FMHB-BS-6KL	0.5~250.0		SS 316	0~6000rpm		
KF07114	FMHB-WS-6KL						
KF07022	FMHB-BN-6KL			SS 316 in black			
KF07023	FMHB-BS-8KL	0.5~250.0		SS 316	0~8000rpm		
KF07115	FMHB-WS-8KL						
KF07024	FMHB-BN-8KL			SS 316 in black			

* Note : The speed ratio is adjustable. Alternative ratio range is 0.5~250.0

GPS SPEEDOMETER



Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
KF08029	FMSB-BS-15L	GPS		SS 316	0~15Knots	12V	Φ85mm
KF08113	FMSB-WS-15L						
KF08030	FMSB-BN-15L						
KF08031	FMSB-BS-30L	GPS		SS 316	0~30Knots		
KF08114	FMSB-WS-30L						
KF08032	FMSB-BN-30L						
KF08033	FMSB-BS-60L	GPS		SS 316	0~60Knots		
KF08115	FMSB-WS-60L						
KF08034	FMSB-BN-60L						

* 5 meters long GPS antenna is included in the package, so it's no need to order it separately.

RUDDER ANGLE





















Art. No.	Model	Signal	Picture Indicating	Bezel	Display Range	Working Voltage	Installation Dimension
JMQ00001	FMRB-BS-0-190	0~190Ω		SS 316	R-L	12V/24V	Φ85mm
JMQ00002	FMRB-WS-0-190			SS 316			
JMQ00003	FMRB-BN-0-190			SS 316 in black			

* The rudder angle can be matched with the KE41000 rudder angle sensor.

SPEEDOMETER (MPH+KMH)



Art. No.	Model	Signal	Picture Indicating		Bezel	Display Range	Working Voltage	Installation Dimension	
KF18012	FPOB-BS-35	Pitot tube provides pressure signals			SS 316	0~35MPH	12V/24V	Φ85mm	
KF18108	FPOB-WS-35								SS 316 in black
KF18013	FPOB-BN-35								
KF18014	FPOB-BS-55				SS 316	0~55MPH			
KF18109	FPOB-WS-55								SS 316 in black
KF18015	FPOB-BN-55								
KF18016	FPOB-BS-65				SS 316	0~65MPH			
KF18110	FPOB-WS-65								
KF18017	FPOB-BN-65								SS 316 in black



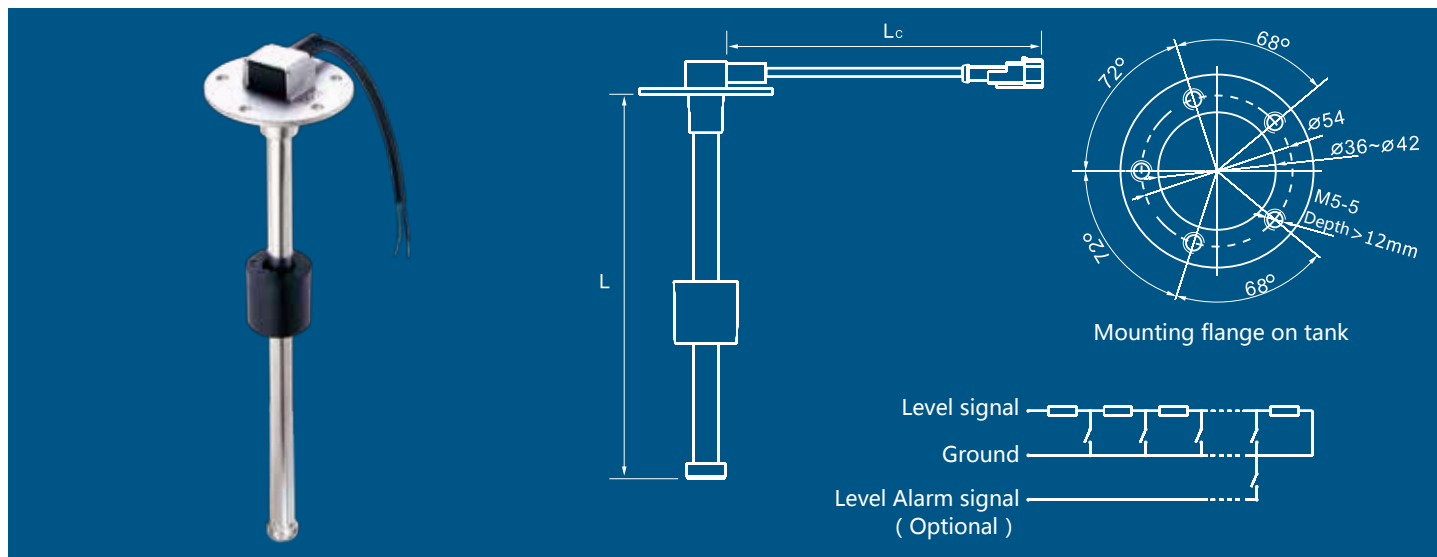
Art. No. : JYM1060

The pitot tube is to match with both SEAV series and SEAQ series speedometer. It's not included in the package, and need to order separately.

Sensor series



S5 Series



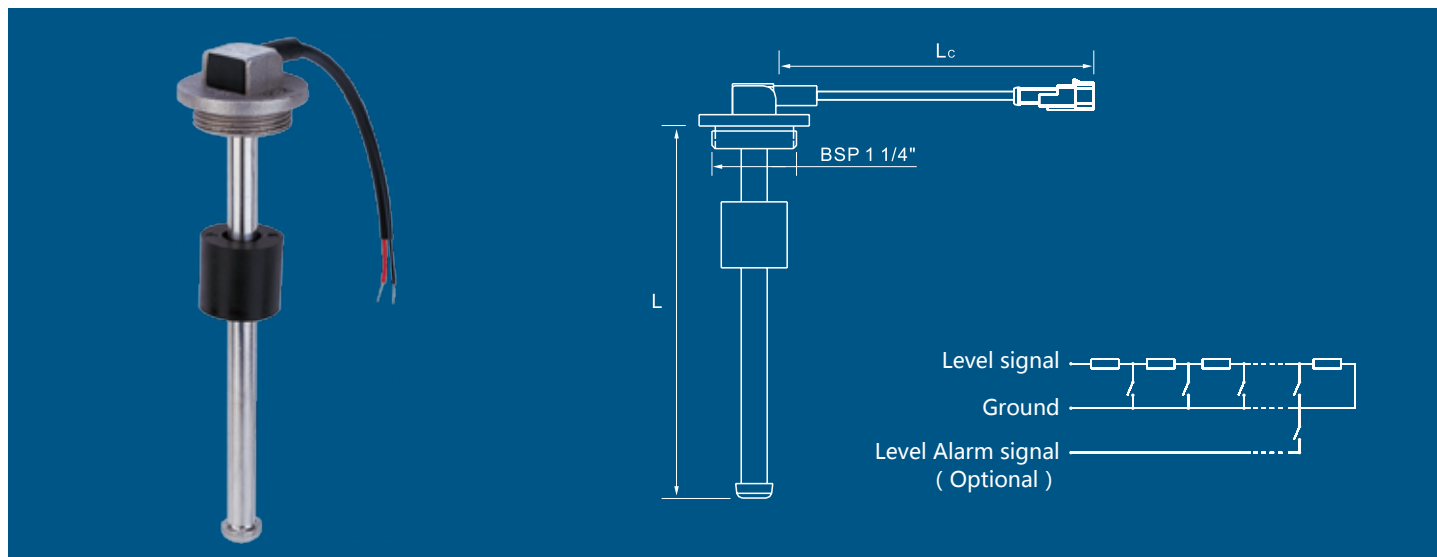
- ◆ Material: The main body is made of SS316 or SS304 stainless steel
- ◆ Length range: 100 ~ 2000 mm. It also can be customized according to your requirements.
- ◆ Mounting: SAE standard 5 holes, other mounting methods available.
- ◆ Accessories: -5 x M5 screws
-2 mm thick NBR gasket.
If installing on a gas tank, we recommend the optional 2mm thick FPM gasket.
- ◆ Protection rank: IP67

- Utilizing magnetic field to control the reed on-off switch, the product features a long service life and protection against vibration.
- Rated power: 125mW
- Rated current for alarm switch: 500mA
- Wire: PVC material (PA corrugated pipe cover is optional)
- Connector: Delphi, Tyco, or others are available according to customer's requirements.
- Output signal:
Resistance control signal, 0~190Ω, 240~33Ω, or customized as required; You can also choose current control signal, 0~20mA, 4~20mA or Voltage control signal, 0.5~4.5VDC, 0~5VDC.
- Resolution range: 10~40mm
- Operating temperature: -40°C ~ +85°C



* Please contact us for more details.

S3 Series



- ◆ Material: The main body is made of SS316 or SS304 stainless steel
- ◆ Length range: 100~2000mm. It also can be customized according to your requirements.
- ◆ Assembly: BSP 1 1/4" thread twist-in, or NPT thread twist-in. Various types of flanges are available for fitting fuel tank if necessary.
- ◆ Mounting: -38mm×2.6mm O-ring
-43mm×3.5mm O-ring
- ◆ Protection rank: IP67
- Utilizing magnetic field to control the reed on-off switch, the product features a long service life and protection against vibration.
- Rated power: 125mW
- Rated current for alarm switch: 500mA
- Wire: PVC material (PA corrugated pipe cover is optional)
- Connector: Delphi, Tyco, or others are available according to customer's requirements.
- Output signal: Resistance control signal, 0~190Ω, 240~33Ω, or customized as required; You can also choose current control signal, 0~20mA, 4~20mA or Voltage control signal, 0.5~4.5VDC, 0~5VDC.
- Resolution range: 10~40mm
- Operating temperature: -40°C ~+85°C

KUS is the world's leading supplier of multipurpose level sensors. Every year more than a million KUS sensors are installed in boats, trucks and off-road equipments all over the world. Measurements are done by series of reed switches positioned inside the level tube. The float is the only moving part of the sensor, thereby minimizes potential mechanical failures. These features contribute to the the sensor's precise level measurements.



* Please contact us for more details.

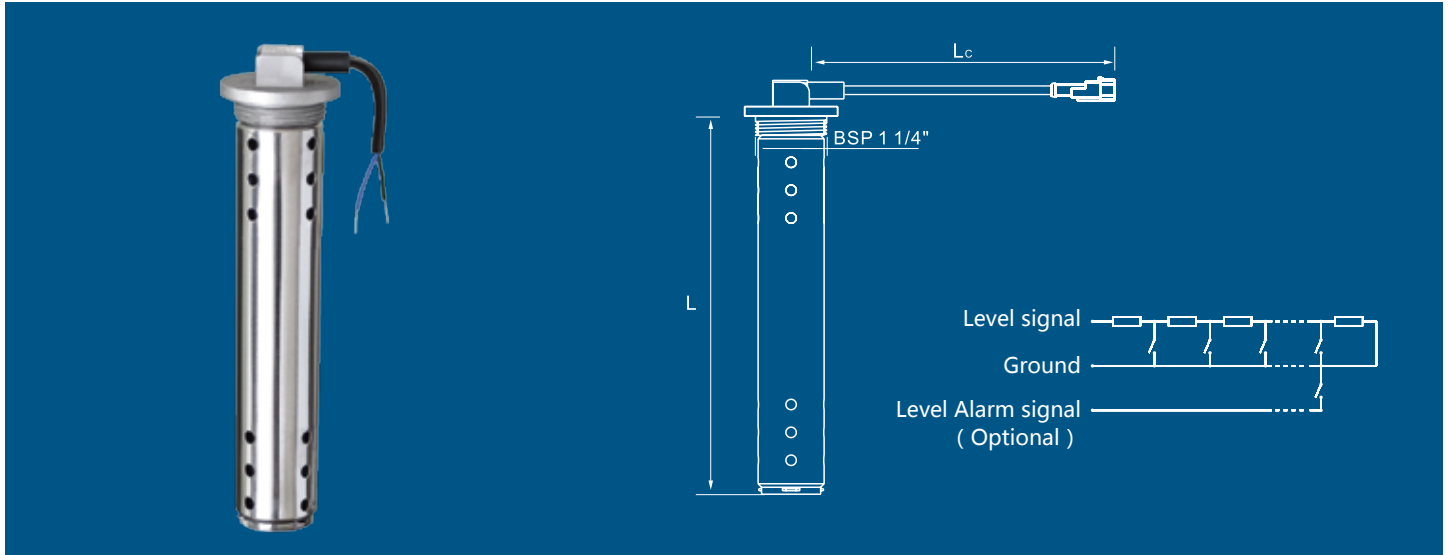
S5/S3 Series

Art. No.	Product Name	Specification
JS60055	S5-E150mm	Output Signal : 0~190Ω Mounting : SAE standard 5 holes Length of Wire : 460mm Gasket : NBR Alarm : No Material: SS316 Logo: KUS
JS60057	S5-E200mm	
JS60059	S5-E250mm	
JS60061	S5-E300mm	
JS60063	S5-E400mm	
JS60065	S5-E500mm	
JS60067	S5-E600mm	
JS60069	S5-E700mm	
JS60071	S5-E800mm	
JS60073	S5-E900mm	
JS60075	S5-E1000mm	
JS60076	S5-E1100mm	
JS60077	S5-E1200mm	
JS60078	S5-E1300mm	
JS60079	S5-E1400mm	
JS60080	S5-E1500mm	
JS60081	S5-E1600mm	
JS60334	S5-U150mm	Output Signal : 240~33Ω Mounting : SAE standard 5 holes Length of Wire : 460mm Gasket : NBR Alarm : No Material : SS316 Logo : KUS
JS60336	S5-U200mm	
JS60338	S5-U250mm	
JS60340	S5-U300mm	
JS60342	S5-U400mm	
JS60344	S5-U500mm	
JS60346	S5-U600mm	
JS60348	S5-U700mm	
JS60350	S5-U800mm	
JS60352	S5-U900mm	
JS60354	S5-U1000mm	
JS60355	S5-U1100mm	
JS60356	S5-U1200mm	
JS60357	S5-U1300mm	
JS60358	S5-U1400mm	
JS60359	S5-U1500mm	
JS60360	S5-U1600mm	

Art. No.	Product Name	Specification
JS61043	S3-E150mm	Output Signal : 0~190Ω Mounting : BSP 1 1/4" Thread Length of Wire : 460mm Gasket : NBR Alarm : No Material : SS316 Logo : KUS
JS61045	S3-E200mm	
JS61047	S3-E250mm	
JS61049	S3-E300mm	
JS61051	S3-E400mm	
JS61053	S3-E500mm	
JS61055	S3-E600mm	
JS61057	S3-E700mm	
JS61059	S3-E800mm	
JS61061	S3-E900mm	
JS61063	S3-E1000mm	
JS61064	S3-E1100mm	
JS61065	S3-E1200mm	
JS61066	S3-E1300mm	
JS61067	S3-E1400mm	
JS61068	S3-E1500mm	
JS61069	S3-E1600mm	
JS61368	S3-U150mm	Output Signal : 240~33Ω Mounting : BSP 1 1/4" Thread Length of Wire : 460mm Gasket : NBR Alarm : No Material : SS316 Logo : KUS
JS61332	S3-U200mm	
JS61334	S3-U250mm	
JS61336	S3-U300mm	
JS61338	S3-U400mm	
JS61340	S3-U500mm	
JS61342	S3-U600mm	
JS61344	S3-U700mm	
JS61346	S3-U800mm	
JS61348	S3-U900mm	
JS61350	S3-U1000mm	
JS61351	S3-U1100mm	
JS61352	S3-U1200mm	
JS61353	S3-U1300mm	
JS61354	S3-U1400mm	
JS61355	S3-U1500mm	
JS61356	S3-U1600mm	
* Optional Flange : Please refer to page 44 “Flange for mounting”		

Remark: The length can be customized according to the tank height.

S3HT Series



- ◆ Material: The main body is made of stainless SS316
- ◆ Length range: 4" , 6" , 8" , 12" , 16" It can also be customized according to your requirements.
- ◆ Assembly: Various types of flanges is available for fitting fuel tank if necessary.
- ◆ Mounting:
 - 38mm×2.6mm O-ring,
 - 43mm×3.5mm O-ring.
- ◆ The outer tube can be detached for easy cleaning.
- ◆ Protection rank: IP67
- Utilizing magnetic field to control the reed on-off switch, the product features a long service life and protection against vibration.
- Rated power: 125mW
- Rated current for alarm switch: 500mA
- Wire: PVC material (PA corrugated pipe cover is optional)
- Connector: Delphi, Tyco, or others are available according to customer's requirements.
- Output signal: Resistance control signal, 0~190Ω , 240~33Ω, or customized as required; You can also choose current control signal, 0~20mA, 4~20mA or Voltage control signal, 0.5~4.5VDC, 0~5VDC.
- Resolution range: 10~40mm
- Operating temperature: -40°C ~+85°C

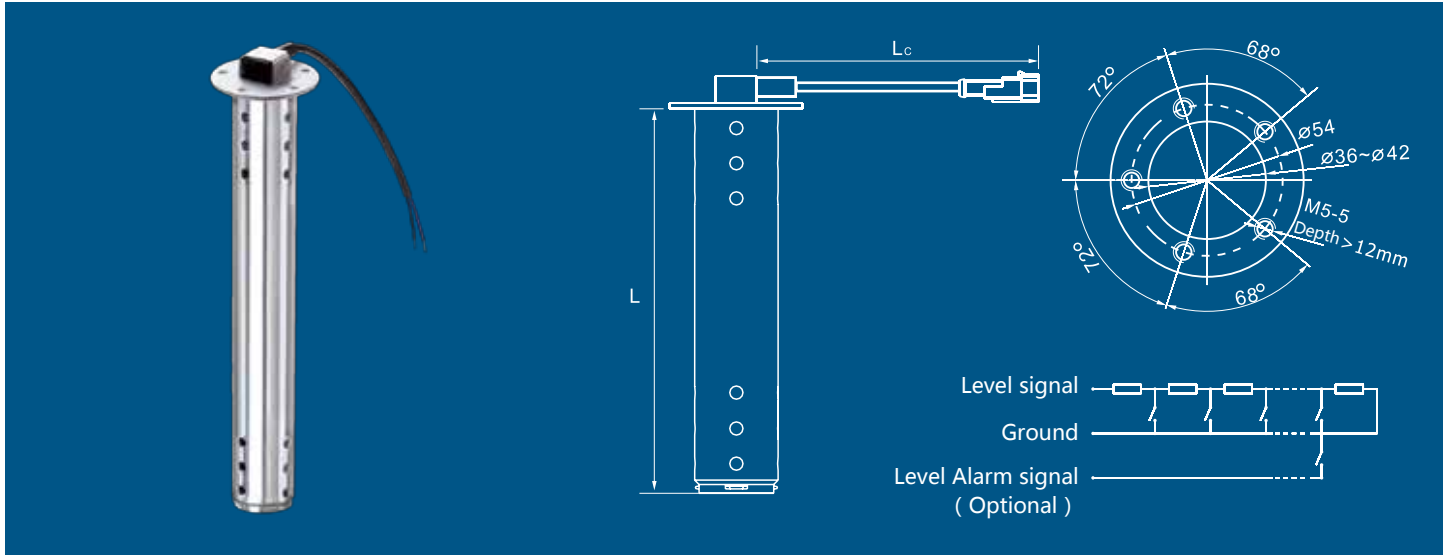
Art. No.	Length(mm)	Specification
JS63186	S3HT-U150	Output : 240~33Ω Mounting : BSP 1 1/4" Thread Gasket : NBR Length of wire : 460mm Material : SS316 Logo : KUS Length of Sensor: Customized
JS63187	S3HT-U175	
JS63062	S3HT-U200	
JS63188	S3HT-U225	
JS63189	S3HT-U250	
JS63203	S3HT-U275	
JS63063	S3HT-U300	
JS63014	S3HT-U350	
JS63064	S3HT-U400	
JS63190	S3HT-U450	
JS63191	S3HT-U500	

Art. No.	Length(mm)	Specification
JS63171	S3HT-E150	Output : 0~190Ω Mounting : BSP 1 1/4" Thread Gasket : NBR Length of wire : 460mm Material : SS316 Logo : KUS Length of Sensor: Customized
JS63172	S3HT-E175	
JS63173	S3HT-E200	
JS63174	S3HT-E225	
JS63148	S3HT-E250	
JS63205	S3HT-E275	
JS63149	S3HT-E300	
JS63089	S3HT-E350	
JS63146	S3HT-E400	
JS63175	S3HT-E450	
JS63152	S3HT-E500	

Note: The above items are without flange, but we can offer optional flange, refer to JSM1714 on page 44.

* Please contact us for more details.

S5H Series

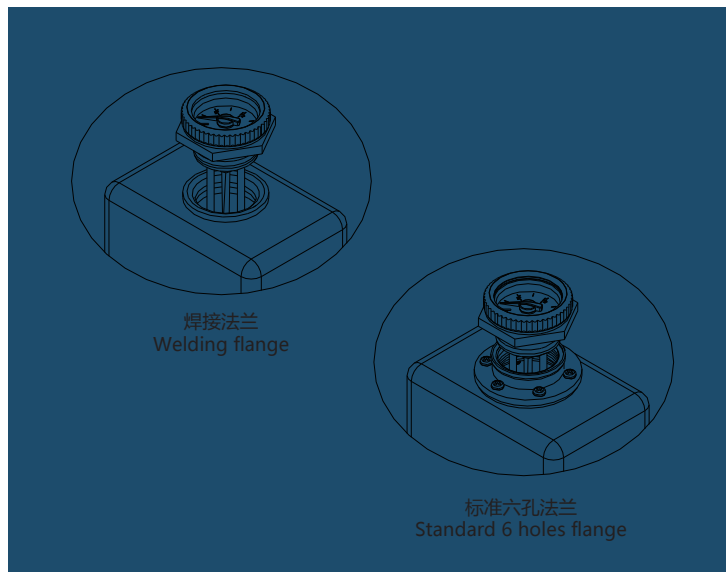


- ◆ Uses: Mainly used in black water or grey water tanks. Can also be used in fresh water tanks.
- ◆ Material: The main body is made of SS316 stainless steel.
- ◆ Length range: 4" , 6" , 8" , 12" , 16" , 20" , 30" It can also be customized according to your requirements.
- ◆ Mounting: SAE standard 5 holes, other mounting methods available.
- ◆ Using NPT thread to fix and seal the sensor and flange, with addition of Teflon tape belts to seal if necessary.
- ◆ Protection rank: IP67
- Utilizing magnetic field to control the reed on-off switch, the product features a long service life and protection against vibration.
- Rated power: 125mW
- Rated current for alarm switch: 500mA
- Wire: PVC material (PA corrugated pipe cover is optional)
- Connector: Delphi, Tyco, or others are available according to customer's requirements.
- Output signal: Resistance control signal, 0~190Ω , 240~33Ω, or customized as required; You can also choose current control signal, 0~20mA, 4~20mA or Voltage control signal, 0.5~4.5VDC, 0~5VDC.
- Resolution range: 10~40mm
- Operational temperature: -40°C ~+85°C

Art. No.	Length(mm)	Specification
JKS00103	S5H-U150	Output : 240~33Ω Mounting : SAE standard 5 holes Gasket : NBR Length of wire : 460mm Material : SS316 Logo : KUS Length of Sensor: Customized
JKS00104	S5H-U175	
JKS00105	S5H-U200	
JKS00106	S5H-U225	
JKS00107	S5H-U250	
JKS00108	S5H-U275	
JKS00109	S5H-U300	
JKS00110	S5H-U350	
JKS00111	S5H-U400	
JKS00112	S5H-U450	
JKS00113	S5H-U500	


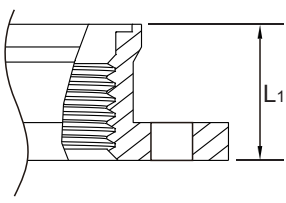

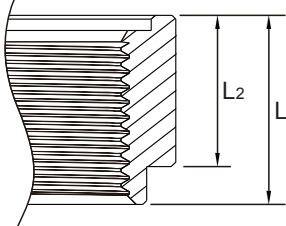

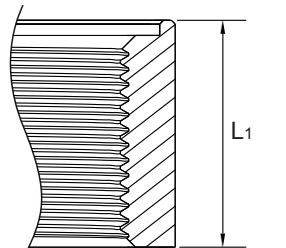
Art. No.	Length(mm)	Specification
JKS00092	S5H-E150	Output : 0~190Ω Mounting : SAE standard 5 holes Gasket : NBR Length of wire : 460mm Material : SS316 Logo : KUS Length of Sensor: Customized
JKS00093	S5H-E175	
JKS00094	S5H-E200	
JKS00095	S5H-E225	
JKS00096	S5H-E250	
JKS00097	S5H-E275	
JKS00098	S5H-E300	
JKS00099	S5H-E350	
JKS00100	S5H-E400	
JKS00101	S5H-E450	
JKS00102	S5H-E500	

* Please contact us for more details.



- 装配螺纹有M45×2与BSP1 1/2两种规格
- 油箱上无法制作螺纹，则可使用配套法兰
- 标准六孔法兰配螺丝锁紧
- 选用焊接法兰与油箱焊接
- Threading types:
M45×2 and BSP 1 1/2.
- If there is no threadings on the tank, then a matched flange can be applied.
- The standard 6 holes flange(locked by screws).
- The welding flange(weld onto the tank).

法兰类型参照表：
Appendix of flanges:

法兰 Flange	料号 Art. No.	材质 Material	螺纹规格 Thread	L1(mm)	L2(mm)	类型 Modle	图例 Style
	JSA0100	Alu.	M45×2	18	—	A	
	JZA0164	Alu.	M45×2	15	12	B	
	JZM0429	Fe	M45×2	15	12		
	JZM0515	SUS 316	M45×2	20	15		
	JZM0658	Fe	BSP 1 1/2"	15	12		
	JZM0807	SUS 316	M45×2	50	45		
	JZM1193	Fe	M45×2	25	10		
	JSA0265	Alu.	BSP 1 1/2"	15	12		
	JZM0774	Fe	BSP 1 1/2"	30	—	C	

Rudder Angle Sensor



Rudder sensor is usually installed on the sternward rudder horn to collect signals by wire resistor. These sensors are made of materials of the highest quality.

Art. No.	Output	Connecting wires	Connecting Gauges
KE41000	Single output : 0-190Ω	2 wires	1 Gauge
JZM6470	Double output : 0-190Ω	3 wires	2 Gauges

Art. No. : JSM4480

Rudder sensor is attached to the cylinder of the steering rudder. Signal output is via integrated reed switches. Sensor is durable and can be easily assembled.



Art. No. : KE41002

The rudder sensor is made of highest quality with 10 meter wires.

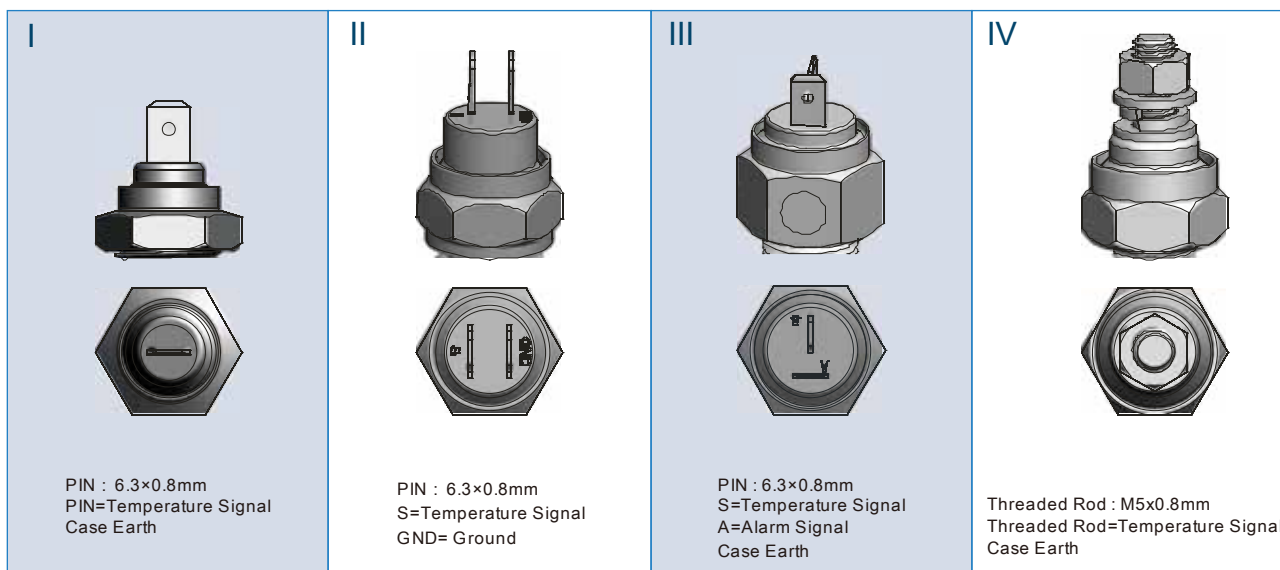
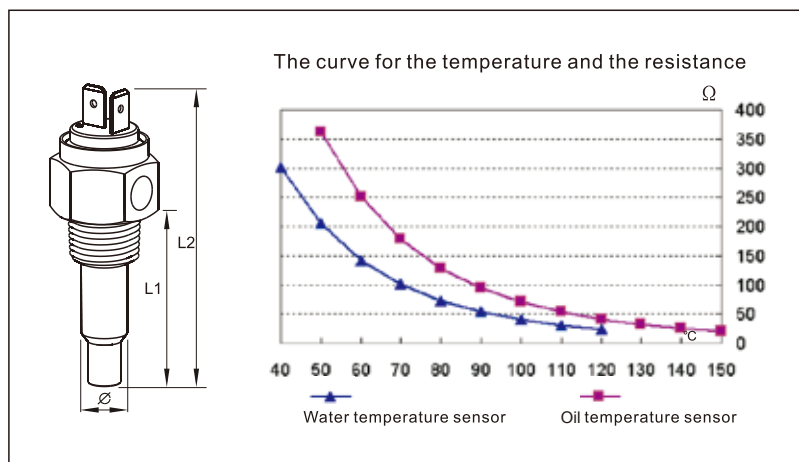
Turn the rudder controller (Steering wheel) to the middle position, and quickly press down the key, it will record the corresponding position of the rudder sensor when the rudder is in the middle position.

Temp. Sensor



- The main body is made of brass.
- Please refer to appendix 1 for product types (temperature sensor series)
- Sensors have double metal plate connectors.
Eg: Type II and Type III
(Type III with alarm feature)
- Protection rank: IP67

- Rated voltage: 6V~24V
- Temperature response time: Minimum 3 minutes after power supply electrified.
- Rated power for alarm switch: 1.2W~3W
- The temperature alarm tolerance: $\pm 3^{\circ}\text{C}$
- Type of alarm touch:
The switch turns off when the temperature rises.



* Please contact us for more details.

Temp. Sensor

WATER TEMPERATURE SENSORS

Art. No.	Product Name	Temperature Max(°C)	Alarm Temp.(°C)	Thread Spec.	Ømm	L1(mm)	L2(mm)	Type
KE00000	SWN-1	120	—	M14×1.0	7.5	28.5	51	I
KE00001	SWN-1	120	—	M14×1.25	7.5	28.5	51	
KE00002	SWN-1	120	—	M14×1.5	7.5	28.5	51	
KE00003	SWN-1	120	—	M16×1.5	7.5	28.5	51	
KE00004	SWN-1	120	—	M18×1.5	7.5	28.5	51	
KE00005	SWN-1	120	—	1/4"-18NPT	7.5	28.5	51	
KE00006	SWN-1	120	—	1/8"-27NPT	7.5	28.5	51	
KE00007	SWN-1	120	—	3/8"-18NPT	7.5	28.5	51	
KE00009	SWN-1	120	—	5/8"-18UNF	7.5	28.5	51	
KE00025	SWN-1	120	—	1/2"-14BSP	7.5	28.5	51	
KE00035	SWN-1	120	—	M10×1.0	7.5	28.5	51	
KE00038	SWN-1	120	—	M16×1.5	7.5	22	44.5	
KE00017	SWN-2	120	—	M16×1.5	13	28.5	58.7	II
KE00021	SWN-2	120	—	3/8"-18NPT	13	28.5	58.7	
KE00018	SWN-2	120	—	M18×1.5	13	28.5	58.7	
KE00022	SWN-2	120	—	5/8"-18UNF	13	28.5	58.7	
KE00016	SWN-2	120	—	M14×1.5	13	28.5	58.7	
KE00020	SWN-2	120	—	1/2"-14NPT	13	28.5	58.7	
KE00036	SWN-2	120	—	1/4"-18NPTF	13	28.5	58.7	
KE00023	SWN-2	120	—	M20×1.5	13	28.5	58.7	
KE00100	SWA-3	120	95	M14×1.0	10.7	41	71.5	III
KE00101	SWA-3	120	95	M14×1.25	10.7	41	71.5	
KE00102	SWA-3	120	95	M14×1.5	10.7	41	71.5	
KE00119	SWA-3	120	107	M16×1.5	10.7	41	71.5	
KE00122	SWA-3	120	98	M18×1.5	10.7	41	71.5	
KE00105	SWA-3	120	98	3/8"-18NPT	10.7	41	71.5	
KE00133	SWA-3	120	103	5/8"-18UNF	10.7	41	71.5	
KE00148	SWA-3	120	108	R3/8"-19	10.7	30	68.5	
KE00170	SWA-3	120	110	1/2"-14NPT	10.7	30	68.5	
KE00112	SWA-3	120	95	M16×1.5	10.7	41	71.5	
KE00106	SWA-3	120	95	M18×1.5	10.7	41	71.5	

* Please contact us for more details.

Temp. Sensor

WATER TEMPERATURE SENSORS

Art. No.	Product Name	Temperature Max(°C)	Alarm Temp.(°C)	Thread Spec.	Ømm	L1(mm)	L2(mm)	Type
KE00108	SWA-3	120	95	1/2"-14NPT	10.7	41	71.5	III
KE00103	SWA-3	120	95	3/8"-18NPT	10.7	41	71.5	
KE00109	SWA-3	120	95	5/8"-18UNF	10.7	41	71.5	
KE00113	SWA-3	120	98	M14×1.0	10.7	41	71.5	
KE00114	SWA-3	120	98	M14×1.25	10.7	41	71.5	
KE00120	SWA-3	120	98	M14×1.5	10.7	41	71.5	
KE00121	SWA-3	120	98	M16×1.5	10.7	41	71.5	
KE00124	SWA-3	120	98	1/2"-14NPT	10.7	41	71.5	
KE00125	SWA-3	120	98	5/8"18UNF	10.7	41	71.5	
KE00149	SWA-3	120	102	5/8"18UNF	10.7	30	68.5	
KE00115	SWA-3	120	98	1/2"-14NPT	10.7	41	71.5	
KE00116	SWA-3	120	95	M12×1.25	10.7	41	71.5	
KE00140	SWA-3	120	110	M16×1.5	10.7	30	68.5	
KE00141	SWA-3	120	105	3/8"-18NPT	10.7	41	71.5	
KE00143	SWA-3	120	100	M14×1.5	10.7	41	71.5	
KE00152	SWA-3	120	99	1/2"-14NPT	10.7	41	71.5	
KE00153	SWA-3	120	99	3/8"-18NPT	10.7	41	71.5	
KE00156	SWA-3	120	100	1/2"-14NPT	10.7	41	71.5	
KE00160	SWA-3	120	98	3/8"-18NPT	10.7	30	68.5	
KE00161	SWA-3	120	98	M16×1.5	10.7	30	68.5	
KE00163	SWA-3	120	110	1/2"-14NPT	10.7	41	71.5	
KE00164	SWA-3	120	110	3/8"-18NPT	10.7	41	71.5	
KE00165	SWA-3	120	98	1/2"-14NPT	10.7	30	68.5	
KE00166	SWA-3	120	98	1/4"-18NPT	10.7	41	71.5	
KE00169	SWA-3	120	98	3/8"-18R	10.7	41	71.5	
KE00010	SWN-1	120	—	1/2"-14NPT	8	30	54	IV
KE00011	SWN-1	120	—	1/8"-27NPT	8	27	51.5	
KE00012	SWN-1	120	—	1/4"-18NPT	8	27	51.5	
KE00027	SWN-1	120	—	1/2"-14BSP	8	30	54	
KE00013	SWN-1	120	—	3/8"-18NPT	8	22	46.5	
KE00030	SWN-1	120	—	M10×1.0	8	27	51.5	
KE00039	SWN-1	120	—	M16×1.5	8	22	46.5	

* Please contact us for more details.

Temp. Sensor

OIL TEMPERATURE SENSOR

Art. No.	Product Name	Temperature Max(°C)	Alarm Temp.(°C)	Thread Spec.	L1(mm)	L2(mm)	Type
KE01001	SON-1	150	—	M14×1.0	28.5	51	I
KE01000	SON-1	150	—	M14×1.25	28.5	51	
KE01002	SON-1	150	—	M14×1.5	28.5	51	
KE01003	SON-1	150	—	M16×1.5	28.5	51	
KE01004	SON-1	150	—	M18×1.5	28.5	51	
KE01005	SON-1	150	—	1/4"-18NPT	28.5	51	
KE01006	SON-1	150	—	1/8"-27NPT	28.5	51	
KE01007	SON-1	150	—	3/8"-18NPT	28.5	51	
KE01008	SON-1	150	—	1/2"-14NPT	28.5	51	
KE01009	SON-1	150	—	5/8"-18UNF	28.5	51	
KE01013	SON-2	150	—	M16×1.5	28.5	58.7	II
KE01017	SON-2	150	—	3/8"-18NPT	28.5	58.7	
KE01014	SON-2	150	—	M18×1.5	28.5	58.7	
KE01018	SON-2	150	—	5/8"-18UNF	28.5	58.7	
KE01012	SON-2	150	—	M14×1.5	28.5	58.7	
KE01016	SON-2	150	—	1/2"-14NPT	28.5	58.7	
KE01019	SON-2	150	—	R3/8"-19	28.5	58.7	
KE01020	SON-2	150	—	M22×1.5	28.5	58.7	
KE01102	SOA-3	150	120	M14×1.0	41	71.5	III
KE01103	SOA-3	150	120	M14×1.25	41	71.5	
KE01104	SOA-3	150	120	M14×1.5	41	71.5	
KE01105	SOA-3	150	120	M16×1.5	41	71.5	
KE01106	SOA-3	150	120	M18×1.5	41	71.5	
KE01107	SOA-3	150	120	M16×1.5	41	71.5	
KE01108	SOA-3	150	120	1/2"-14NPT	41	71.5	
KE01101	SOA-3	150	120	3/8"-18NPT	41	71.5	
KE01100	SOA-3	150	120	5/8"-18UNF	41	71.5	
KE01109	SOA-3	150	120	M20×1.5	41	71.5	
KE01110	SOA-3	150	115	1/2"-14NPT	41	71.5	
KE01023	SOA-3	150	105	M12×1.25	41	71.5	
KE01111	SOA-3	150	80	M14×1.5	41	71.5	
KE01112	SOA-3	150	120	1/4"-18NPT	41	71.5	
KE01113	SOA-3	150	120	M22×1.5	30	68.5	
KE01114	SOA-3	150	135	M16×1.5	41	71.5	
KE01115	SOA-3	150	100	M14×1.0	41	71.5	

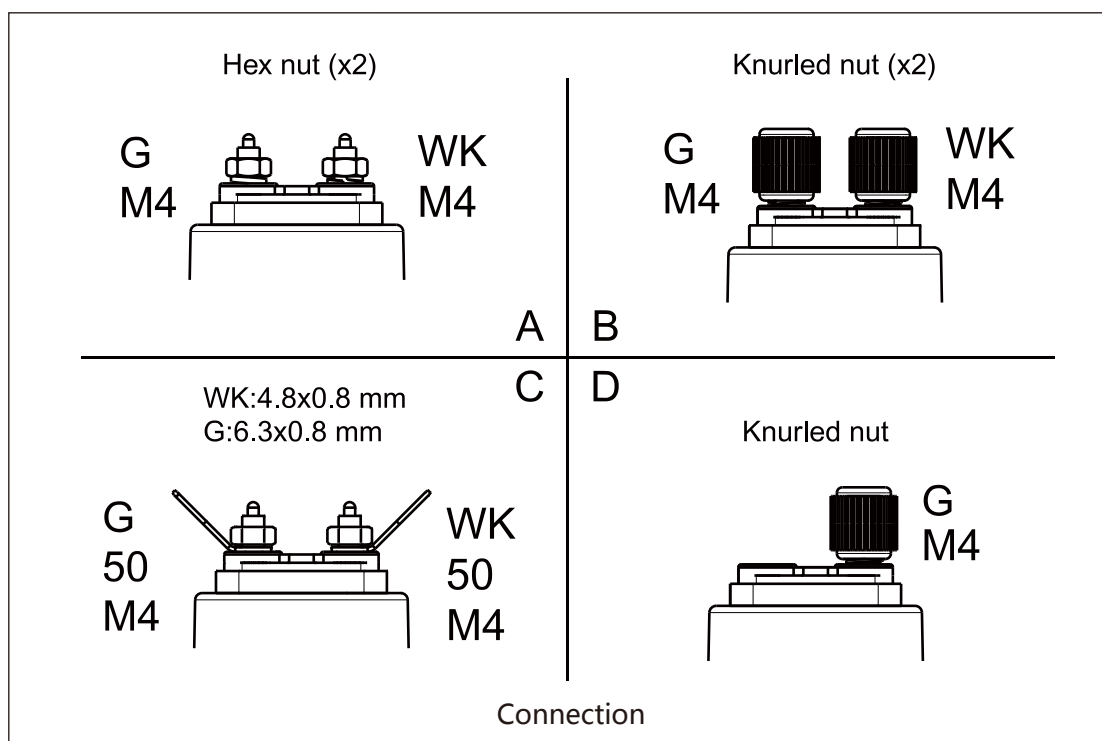
* Please contact us for more details.

Pressure Sensor(Mechanical)



- It combines the advantages of excellent anti-vibration performance, long service life, simple assembly process, stable quality, wide range of operating temperature, etc.
- It is largely applied to many fields, such as the engine pipe of vehicles and ships, water processing projects, inspection and control of industrial processes, hydraulic and pneumatic control projects, etc.
- Protection rank: IP66

- Operating voltage: 6~24V
- Conducting power: < 5W
- Operating temperature: -25 ~120°C(120°C MAX 1H)
- Measuring range: 0~5Bar or 0~10Bar
- Alarm: 0.8Bar or 1.4Bar
- Output signal: Standard resistance value: 10~184Ω
- Thread fitting: NPT1/4、NPT1/8、M10、M10X1 or customized as requires.



* Please contact us for more details.

Pressure Sensor(Mechanical)

Art. No.	Thread	Measuring Range(Bar)	Output(Ω)	Alarm(Bar)	Connection	Appearance
KE21102	NPT1/8	0-5	10-184	0.8±0.2	A	Color zinc plated
KE21100	NPT1/8	0-10	10-184	0.8±0.2		
KE21101	NPT1/4	0-10	10-184	0.8±0.2		
KE21047	NPT1/4	0-10	10-184	1.4±0.3		
KE21015	UNF 3/8	0-10	10-184	No		
KE21109	M10*1	0-10	10-184	1.4±0.2		
KE21104	NPT1/8	0-5	10-184	0.8±0.2	B	White zinc plated
KE21010	NPT1/8	0-5	10-184	NO		
KE21112	NPT1/4	0-5	10-184	0.8±0.2		
KE21121	M10*1	0-5	10-184	1.4±0.2		
KE21134	R1/8	0-5	10-184	0.8±0.2		
KE21103	NPT1/8	0-10	10-184	0.8±0.2		
KE21107	M10*1	0-10	10-184	1.4±0.2		
KE21111	NPT1/4	0-10	10-184	0.8±0.2		
KE21006	NPT 1/8	0-10	10-184	No		
KE21123	M14*1.5	0-10	10-184	0.8±0.2		
KE21126	R1/8	0-10	10-184	0.4±0.2		
KE21017	NPT1/8	0-10	240-33	NO		
KE21124	NPT1/8	0-10	10-184	0.5±0.2	C	White zinc plated
KE21142	NPT1/8	0-10	10-192	0.8±0.2		
KE21120	NPT1/8	0-10	10-184	0.8±0.2		
KE21005	NPT1/8	0-5	10-184	No	D	
KE21152	BSP-1/8	0-10	10-184	No		



* Please contact us for more details.

Tacho Sensor



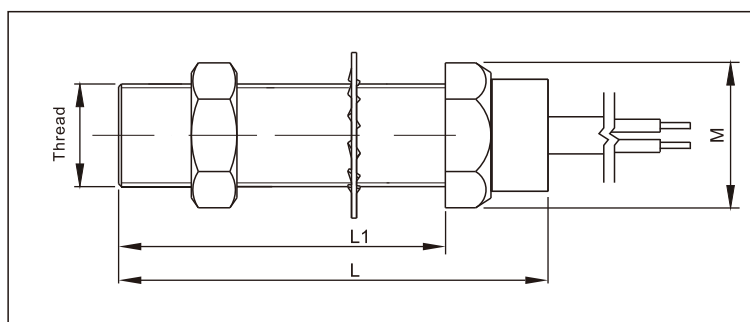
- Used for measuring gear rotation speed. Its main advantages include stable signal output, wide range of operational temperature, small size, and simple assembly process.
- It covers a wide range of measurements, including zero rotation speed.
- The shell appearance, material and thread fitting can be customized as requires.
- Protection rank: IP65

Holzer Tacho Sensor

- Operating voltage: 8~32V with polarity protection
- Operating current: < 50mA
- Operating temperature: -40~85°C
- Output signal: Square wave
- Signal duty factor: 47±5%
- Inductance distance: ≤2mm
- Connection method:
three or four wires connection

Magnetoelectric Tacho Sensor

- Operating temperature: -40~85°C
- Output signal: sine wave
- Inductance distance: ≤1mm
- Tooth module: 2~6
- Connection method:
two wires connection



Art. No.	L(mm)	L1(mm)	Thread	M	Output Signal	Frequency Range(Hz)	Connection	Appearance
KE10010	100	80	M16×1.5	SW19	Sine wave	100-15000	Two wires	Nickel plated
KE10011	65	45	M16×1.5	SW19				
KE10012	100	80	UNF5/8	SW19				
KE10000	80	60	M18×1.5	SW22	Square wave	0-20000	Three wires	
KE10001	80	70	M18×1.5	No hexagon				
KE10004	80	70	M16×1.5	No hexagon				
KE10005	60	40	M18×1.5	SW22				
KE10006	80	70	UNF5/8	No hexagon				
KE10007	80	60	UNF5/8	SW19				

* Please contact us for more details.

