Principle features

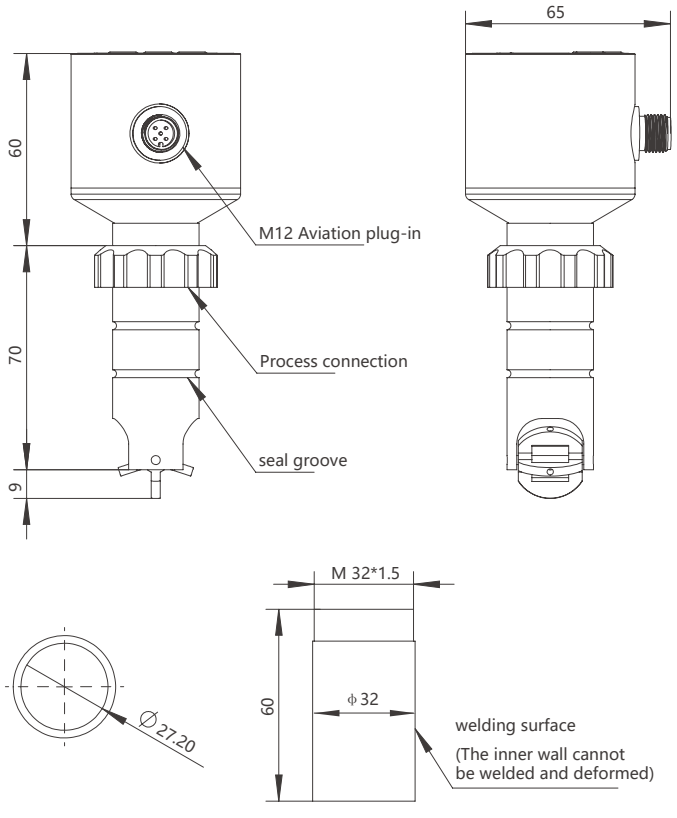
KF10 series plug-in impeller flow sensor is also an intelligent flow switch. It is a compact flow sensor with the advantages of small size and easy setting. The built-in intelligent circuit can set the upper and lower limit alarm values of the flow arbitrarily, and can remotely monitor real-time Flow status, all parameters can be set arbitrarily on site, and the impeller measuring medium can be programmed arbitrarily after being processed by the sensor intelligent circuit. ◆ Hall-type pulse output, open collector PNPNPN, strong driving ability

- ◆ Has high chemical corrosion resistance
- ◆ IP65 protection grade, suitable for harsh field environment
- ◆ Plug-in easy to install
- ◆ Good stability and strong anti-interference ability
- ◆Good reliability and maintenance-free

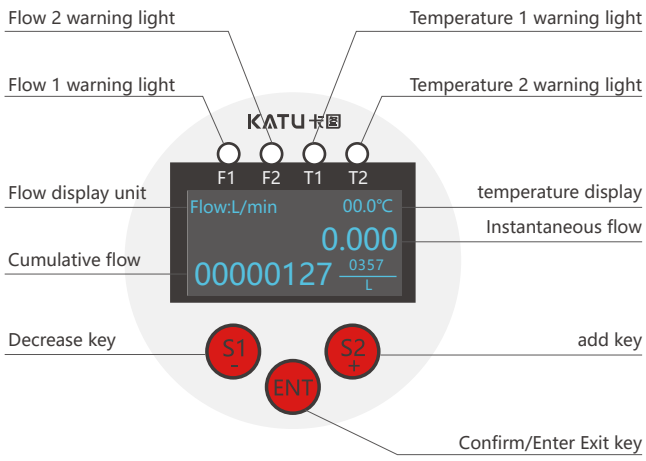
technical parameter

- ◇ Velocity range: 0.15...6m/s
- ◇ Pipe diameter range: DN10-DN32
- ◇Power supply voltage: DC5-24V
- ◇Repeatability/Linearity: ±5% full scale/±1.0% full scale
- ◇Minimum Reynolds number: 4500
- ◇Temperature pressure
  - PP body: 12.5bar@25℃ 1.7bar@90℃
  - PVDF body: 14bar@25℃ 1.7bar@100℃
- ◇Overcurrent parts
  - Sensor body: POM/aluminum/stainless steel
  - O-ring: FPM/EPDM
  - Impeller: PVDF
  - Bearing/shaft: high temperature oxide pick ZrO2 (ceramic), titanium alloy, Hastelloy C

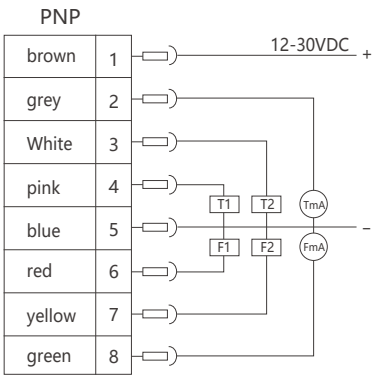
Dimensions (mm)

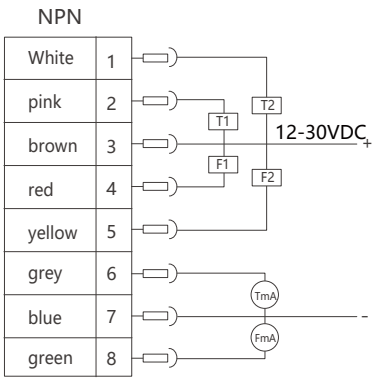


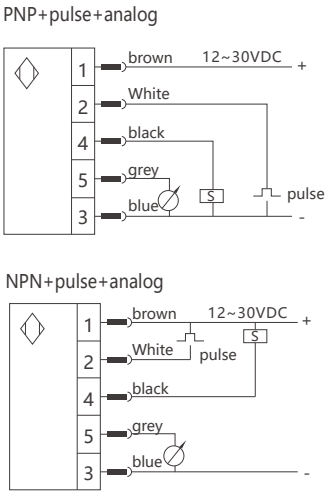
Supporting installation accessories



Wiring diagram



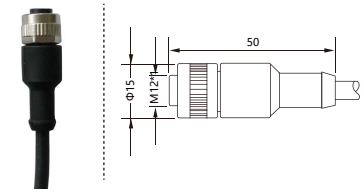
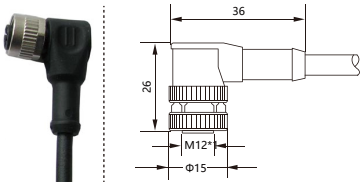


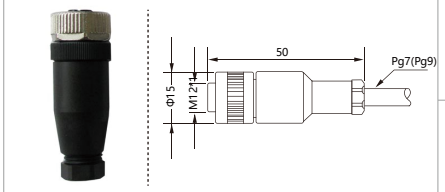
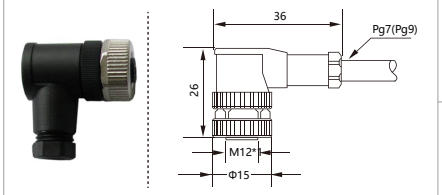


Selection table

K F 10-	B	-	P	Y P	B S	A	detail
KF10-							KF10 Impeller Flow Sensor
	B						Standard Edition
	G						Extended
		015					Pipe diameter: DN15~DN600 optional other pipe diameters please note
			P				PNP output
			N				NPN output
			PAF				PNP+analog+pulse output
			NAF				NPN+analog+pulse output
				YP			Impeller material: PP
				YV			Impeller material: PVDF
				YA			Impeller material: ABS
		-		YT			Impeller material: PTFE
					BS		Body material: 304 stainless steel
					BP		Body material: PP
					BC		Body material: CPVC
					BV		Body material: PVDF
					BT		Body material: PTFE
						A	Spindle: ZRO2
						B	Shaft: 316L stainless steel
						C	Shaft: Titanium alloy
						D	Shaft: Hastelloy

Optional accessories - electrical accessories

name	Outline drawing/dimension drawing（mm）	material	model
M12*1-5Pin (2m cable)		PUR	ZL05-PU02G
M12*1-5Pin (5m cable)			ZL05-PU05G
M12*1-5Pin (10m cable)			ZL05-PU010G
		PVC	ZL05-PC02G
			ZL05-PC05G
			ZL05-PC010G
M12*1-5Pin (2m cable)		PUR	ZL05-PU02W
M12*1-5Pin (5m cable)			ZL05-PU05W
M12*1-5Pin (10m cable)			ZL05-PU010W
		PVC	ZL05-PC02W
			ZL05-PC05W
			ZL05-PC010W

M12* 1-4pin /5Pin self-connector/size drawing（mm）	model
	GL04 (4Pin joint)
	GL05 (5Pin joint)
	WL04 (4Pin joint)
	WL05 (5Pin joint)