

High Pressure Proximity Switches

KGG Series for Cylinders & Valves

Beijing Kennda provides high pressure Inductive and Capacitive proximity switches to service high pressure and high temperature environments. These switches have thick stainless steel housings and high density filling epoxy, which can resist 50MPa pressure on the sensing surface. The switches are temperature compensated from -40°C to +155°C, which guarantees long and stable sensing distance. The complete switch meets IP 68. The switches are available with molded-in cable or with plug-in connector. Besides short circuit and over current protection, the switches have fully reversal connection protection on all of the power supply and output terminals, you can safely connect any pins to any external terminals (within supply voltage) without damage, as well as voltage spikes protection and delay protection for inductive load and freewheeling diode inside. This "full protection" feature is very important for widespread users. The switches are 100% shock pressure aging tested.

Specifications of M12 PNP Sn=2mm Inductive Sensors

Type	KGG12P3KP24V200	KGG12P4KP24V200	KGG12P4KPC24V200
Housing size	M12×1	M12×1	
Mounting	flush	flush	
Rated sensing distance s_n	2 mm	2 mm	
Output	PNP Normally-open	PNP Normally-open + PNP Normally-closed	
Rated operational voltage U_e	24 Vdc	24 Vdc	
Supply voltage U_B	10...30 Vdc	10...30 Vdc	
Voltage drop U_d at I_e	< 0.5 V	< 0.5 V	
No-load supply current I_0	< 5 mA	< 5 mA	
Rated operational current I_e	200 mA	200 mA	
Off-state current I_r	< 80 μ A	< 80 μ A	
Protected against polarity reversal	yes	yes	
Protected power-output reversal	yes	yes	
Short circuit/overload protection	yes/yes	yes/yes	
Delay protection for inductive load	yes	yes	
Voltage spikes protection	yes	yes	
Internal freewheeling diode	yes	yes	
Repeat accuracy R	< 5 %	< 5 %	
Ambient temperature range T_a	-40...+125 °C	-40...+125 °C	
Operating frequency f	2000 Hz	2000 Hz	
Output action indication	Red LED	Red LED	
Power supply indication	Green LED	Green LED	
Degree of protection	IP 68	IP 68	
Housing material	Stainless 304	Stainless 304	
Material of sensing face	Epoxy	Epoxy	
Rated high pressure	50 MPa	50 MPa	
Connection	molded-in cable	molded-in cable	connector

