

HS125 designed to work as position sensor for sucker rod pump crank and measure real motor speed.

HS125 intended to work with rod pump controller, allowing to correct start point of dinagraphs and monitor sucker rod pump equipment condition, that allows to prevent malfunctions.

HS125 comes in kit that contains:

- Hall effect motor sensor (cable with sensor)
- Hall effect crank position sensor (cable with sensor)
- Ferrite magnet on a metal tape
- Neodymium magnet
- Two aluminum tubes
- Small stainless steel holder
- Big stainless steel holder
- Stainless steel tube holder



Fig. 1 HS125 kit

Features:

- Wide operating temperature range
- Easy to install
- Durable
- Hermetically sealed



* Distance depends on the type of magnet. Min magnetic field: 10 mT

Fig. 2 HS125 connection scheme

Basic specifications

Operating temperature	-40°C to +50°C
Humidity	0-100%
Protection	IP67
Operating voltage	4-28V
Supply current	< 5 mA
Magnetic flux density «ON» state	10-20mT
Weight	1,7 kg

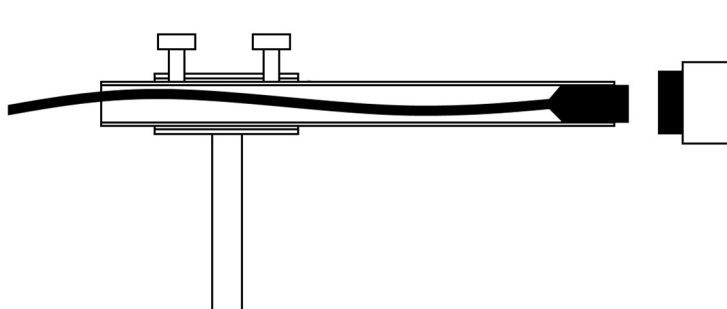


Fig.3 HS125 assembly

Crank position sensor is designed to be mounted on the gearbox of SRP. In opposite to position sensor, on crank should be installed (glued) magnet. Length of holder bracket should be adjusted so distance between sensor and magnet at the point of closest approach was no more than 8 mm.

The signal cable must be routed through the metal tube of the holder and fixed to avoid winding the cable around moving parts and connected to the terminal block contacts of the controller.

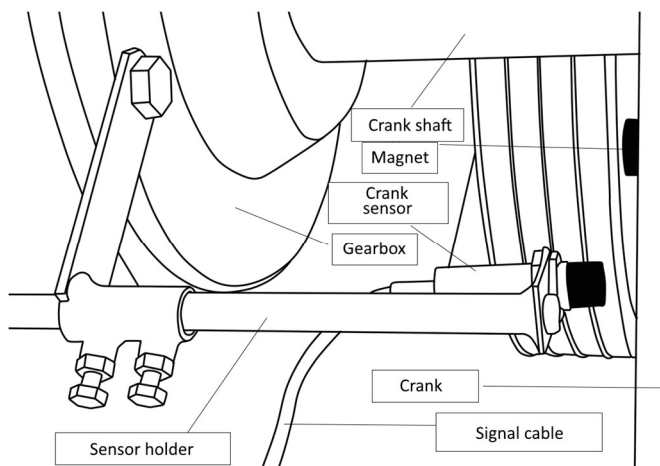


Fig.4 Installation on crank

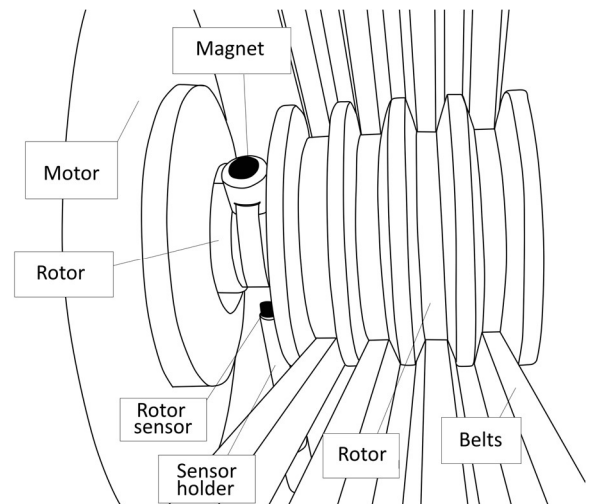


Fig.5 Installation on rotor

Rotor position sensor is designed to be mounted on motor bed. In opposite to position sensor, on rotor should be installed magnet using protracted clamp attached magnet. Length of holder bracket should be adjusted so distance between sensor and magnet at the point of closest approach was no more than 8 mm.

Signal cable of rotor position sensor must be secured in order to avoid winding it on the moving parts of motor and routed through the cable gland of control system and connected to the appropriate terminal block contacts of the controller: