



KYN01 Series Brake Indicator

Description

The main function of this switch is to measure piston movement and send out the Alarm signal. The surveying rod touch and move with the measured surface. The output signal will be changed when the surveying rod reach at the warning point 1/2 and the switch will send corresponding control signal.

Applications

The indicator is supplied with pre-set switch points to suit the specific brake type and selected pad wear level.

Features

The brake indicator is available in 10~36VDC only. The indicator can be delivered with different cable types (non-shielded, shielded or without cable) with different lengths (5m,10m,15m) via M12 plug angle (straight available, consult factory).

Product Approval:

KYN01 brake indicator has been successfully obtained the relevant agencies CE certification and passed 2000V resistance voltage insulation test by third party.

Specifications

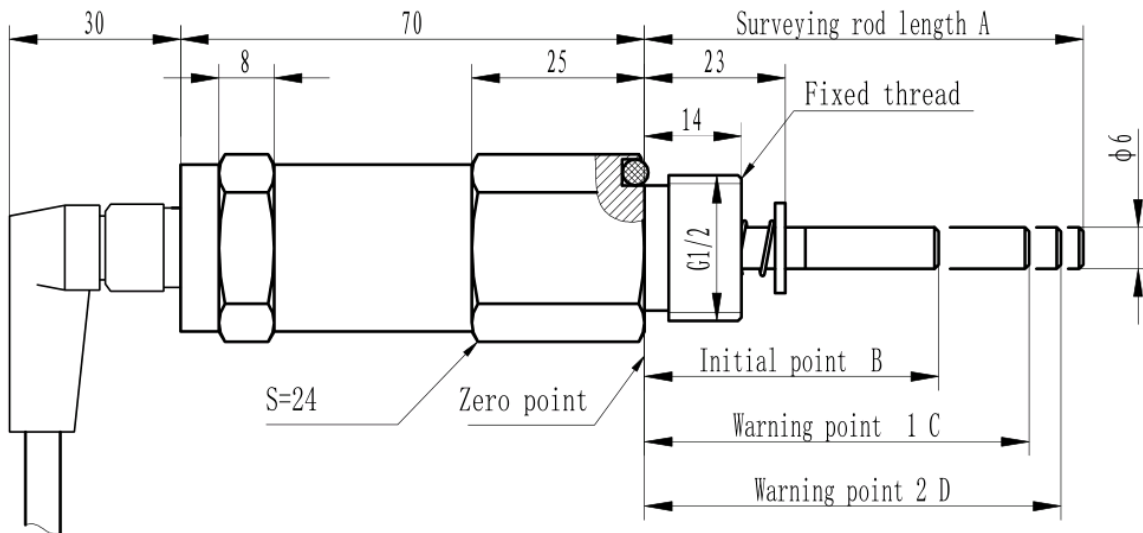
- Operating Temperature: -40~+80°C
- Voltage supply: 10~36VDC
- Maximum load current: 100mA
- Switching tolerance: ± 0.3 mm
- Protection grade: IP65(mounted)
- Max Tightening torque G1/2: 20Nm
- Max Tightening torque M12: 1.5Nm
- Max no. of operations: 1million
- Cable Dimensions: PUR 5*0.25mm²
- Spanner size: 24mm



KYN01 B Series (stroke: $5\text{mm} \leq X \leq 16\text{mm}$; $X=A-B$)



Product Diagram:



Surveying rod length A (mm)	Initial point B (mm)	Warning point 1 C(mm)	Warning point 2 D(mm)

The switch has 5 pins, when the switch on off working state, pin 1 and 4 NC, pin 2 and 3 NC, pin 2 and 5 NO. when the probe arrive at the Warning point 1, pin 1 and 4 NC, pin 2 and 3 NC, pin 2 and 5 NO. when the probe arrive at the Warning point 2, pin 1 and 4 NO, pin 2 and 3 NO, pin 2 and 5 NC.



How to order:

KYN-01B 1 A 9 0 B 7 6 C 8 6 D 8 8

Cable _____

0= no cable

1= 5m cable, PUR shielded;

2= 5m cable, PUR non-shielded;

3= 5m cable, PVC non-shielded;

4= 10m cable, PUR shielded;

5= 10m cable, PUR non-shielded;

6= 10m cable, PVC non-shielded;

7= 15m cable, PUR shielded;

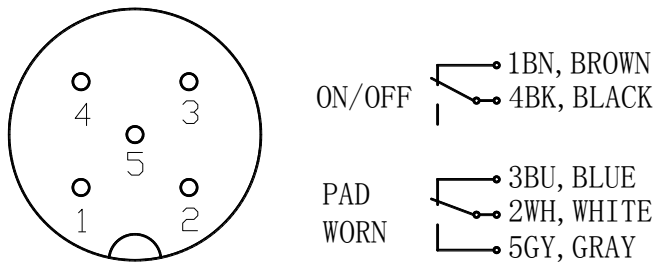
8= 15m cable, PUR non-shielded;

9= 15m cable, PVC non-shielded;

KYN-01B1A90B46C86D88

**Cable: 5m, PUR shielded; A=Surveying rod length: 90mm; B= Initial point: 76mm;
C= Warning point 1: 86mm; D= Warning point 2: 88mm**

Wiring diagram of Plug



State of switch with contact control:



Initial point state

**Contact state with
Warning point 1**

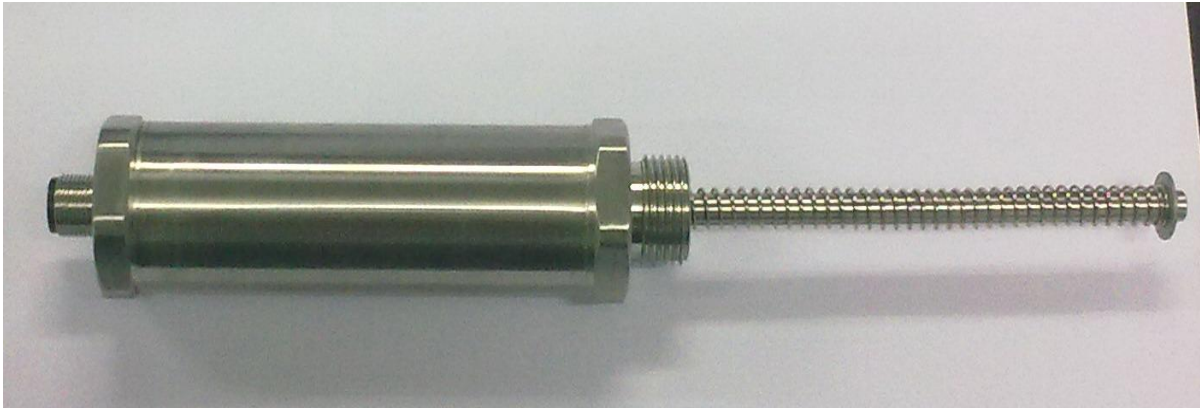
**Contact state with
Warning point 2**

Notice

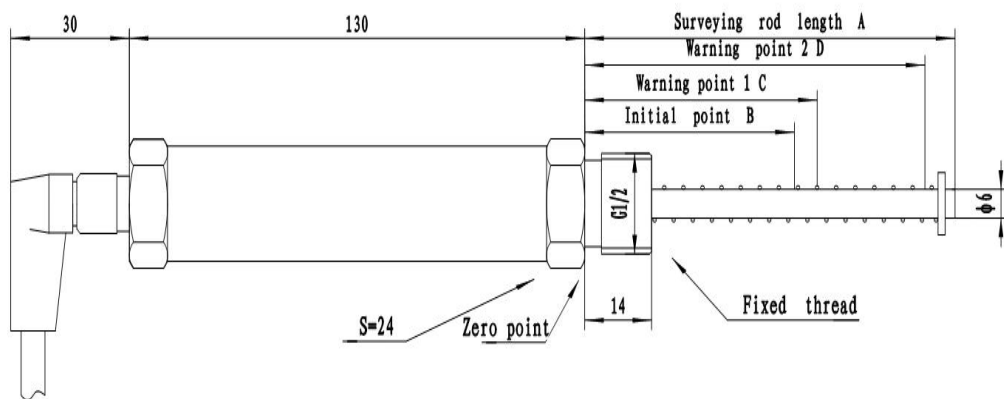
1. Take good care of the surveying rod, pay attention to installation direction and strength, avoid the surveying rod bending damage.
2. Suitable Storage environment and installation dynamics, sharp collision or drop from 1-meter-high are likely to damage the switch.



KYN01 E Series (stroke: $70\text{mm} \leq X \leq 85\text{mm}$; $X=A-B$)



Product Diagram:

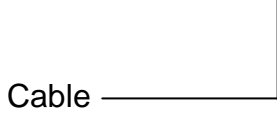


Surveying rod length A (mm)	Initial point B (mm)	Warning point 1 C(mm)	Warning point 2 D(mm)



How to order:

KYN-01E 5 A 1 3 2 B 5 6 C 6 3 D 1 2 5



Cable

0= no cable

1= 5m cable, PUR shielded;

2= 5m cable, PUR non-shielded;

3= 5m cable, PVC non-shielded;

4= 10m cable, PUR shielded;

5= 10m cable, PUR non-shielded;

6= 10m cable, PVC non-shielded;

7= 15m cable, PUR shielded;

8= 15m cable, PUR non-shielded;

9= 15m cable, PVC non-shielded;

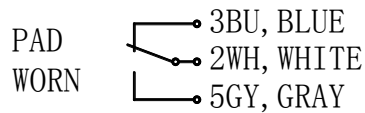
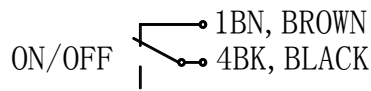
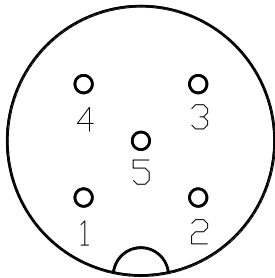
KYN-01E5A132B56C63D125

Cable: 10m, PUR non-shielded;

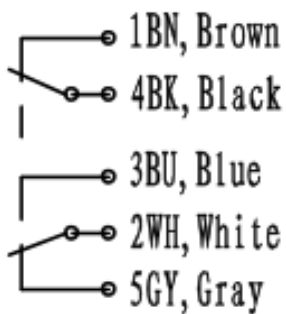
A=Surveying rod length: 132mm; B= Initial point: 56mm;

C= Warning point 1: 63mm; D= Warning point 2: 125mm

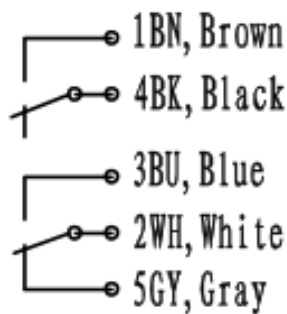
Wiring diagram of Plug



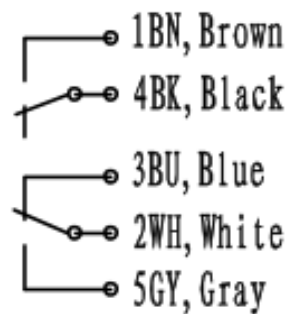
State of switch with contact control



Maximum length



Middle position



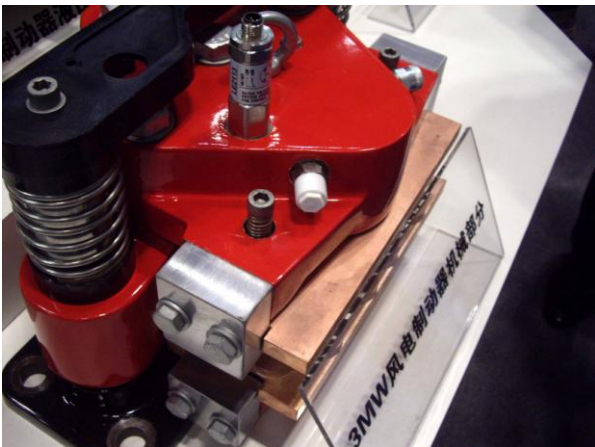
Initial point



Precautions

1. The direction of the indicator alarm is the extension of the rod, the installation should be compressed to the limit position.
2. The installation should pay attention to the initial position, when the rod compression to the limit, the need to stop to continue to exert greater external force, to avoid serious damage to the product.
3. Please don't privately disassemble the steel rods if it is not necessary.
4. The steel rod should be maintained in a horizontal state, and can not shake too large, or prone to uneven bending caused by uneven force.
5. Try to avoid falling the switch from over one meter height drop as soon as possible that may damage .
6. Every switch will installation thread are equipped with an O-ring, pay attention not to damage or lost.

Application Picture:



Applied the KYN01-B to the Brake indicator



Applied the KYN01-E to the rotor lock

Gross weight: KYN01-B 0.4kg
KYN01-E 1kg

Net weight: KYN01-B 0.2kg
KYN01-E 0.5kg