



GUC Series Mine Safety Type Displacement Sensors

Description

GUC series of mine safety type displacement sensor is a magnetostrictive principle of non-contact absolute position measurement of displacement sensors, suitable for a mixture of methane gas and coal dust explosion hazards of coal mine. Contactless sensing with highest durability, Stable and reliable performance. Operating ambient temperature can work normally in the range of $-10\text{ }^{\circ}\text{C}$ to $60\text{ }^{\circ}\text{C}$. Excellent performance of the sensor, allowing users ease of use.



Applications

Hydraulic Roof Supports
Roadheaders



Features

- ◆ Intrinsically safe products meet GB3836-2010 MT1109-2011 and Q / XKYC 14-2012 standard, get coal safety certificate. Explosion-proof mark: ExibI;
- ◆ Contactless Sensing with Highest Durability;
- ◆ Installed in the hydraulic cylinder, the absolute value of the output;
- ◆ Material and electrical performance conforms to mine safety requirements, high security;

Specifications

◆ GUC1200(A) Series

Security parameters: U_i : 12.5V I_i : 15mA C_i : 0uF L_i : 0mH

Operating voltage: +12V DC \pm 10%

Current drain: \leq 15mA DC

Output: DC (0.5~4.5V) \pm 0.02V; Load : 2K Ω ~ ∞

Non-linearity: $<$ \pm 0.1%F.S.

Repeatability: $<$ \pm 0.01%F.S.

Resolution: 12bitD/A , 0.17mm

Measuring range: : 0~1200mm

◆ GUC1200(B) Series

Security parameters: U_i : 12.5V I_i : 15mA C_i : 0uF L_i : 0mH

Operating voltage: +12V DC \pm 10%



Current drain: $\leq 10\text{mA DC}$

Output: DC (0.5~4.5V); Load : $2\text{K}\Omega \sim \infty$

Non-linearity: $< \pm 0.2\% \text{F.S.}$

Repeatability: $< \pm 0.01\% \text{F.S.}$

Resolution: 10bitD/A , 1mm

Measuring range: 0~1200mm

◆ GUC1200/2440(C) Series

Security parameters: U_i : 12.5V I_i : 15mA C_i : 0uF L_i : 0mH

Operating voltage: +12V DC $\pm 10\%$

Current drain: $\leq 20\text{mA DC}$

Output: DC (0~5V); Load : $2\text{K}\Omega \sim \infty$

Non-linearity: $< \pm 0.2\% \text{F.S.}$

Repeatability: $< \pm 0.01\% \text{F.S.}$

Resolution: 16bitD/A , 0.34mm

Measuring range: 0~1200mm, 0~2440mm

Application Overview:

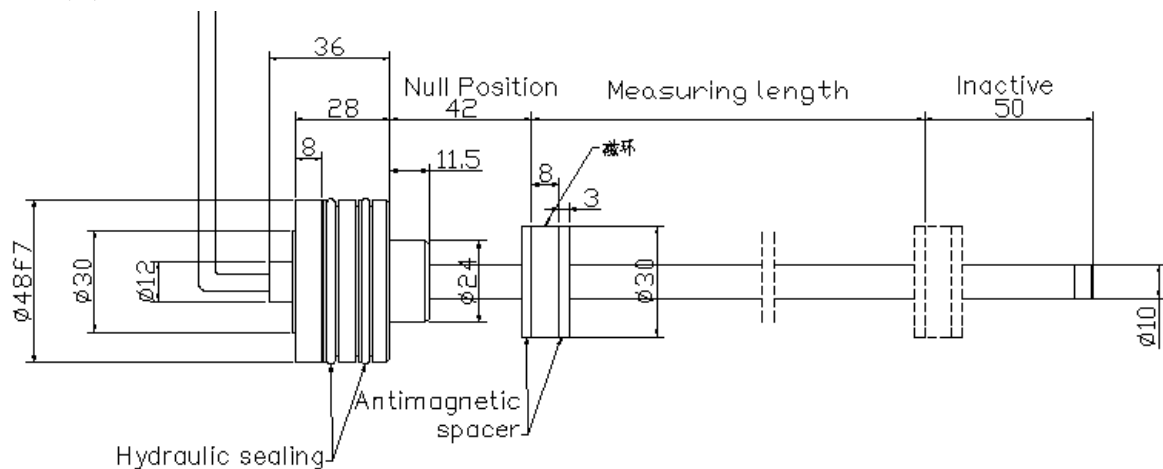
GUC series of mine safety type displacement sensor apply to Hydraulic Roof Supports, Roadheaders and other mining equipment, the user can choose according to the actual installation structure.

Ordering Information:

GUC1200(A)、GUC1200(B)、GUC1200/2440(C) (Please specify the scale procurement.)

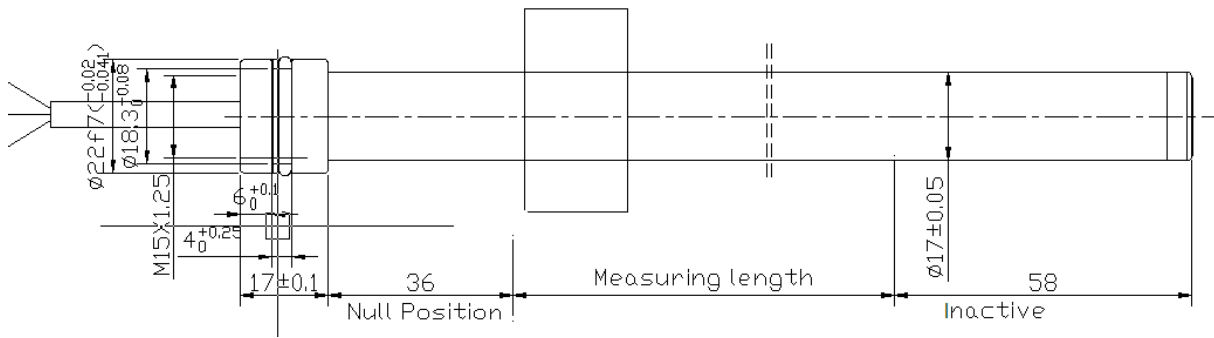
Product Diagram:

GUC1200(A)

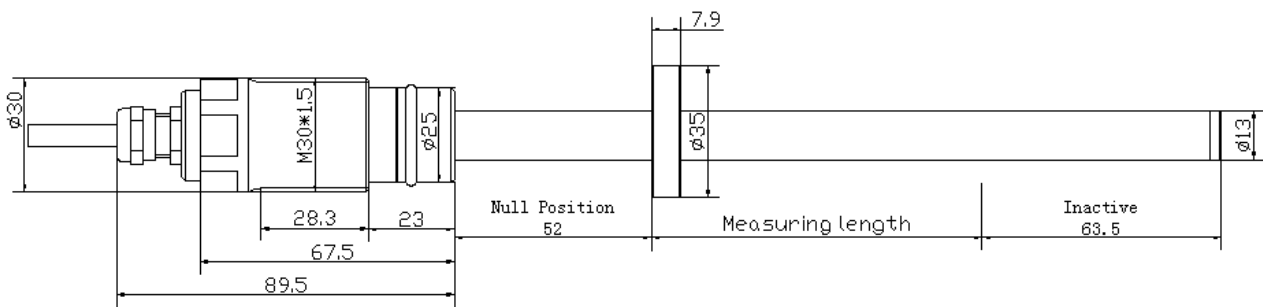




GUC1200(B)



GUC1200/2440(C)



Application Picture:



Hydraulic Roof Supports



Roadheaders

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