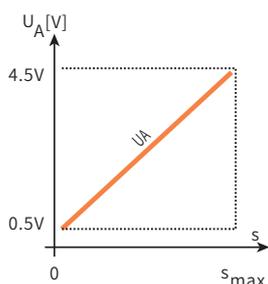
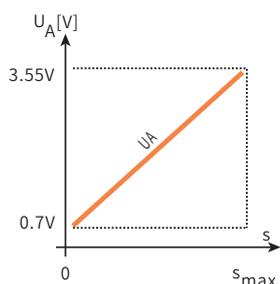


GUC1200(C) - Analog

GUC1200(C)-Mine intrinsic safety type



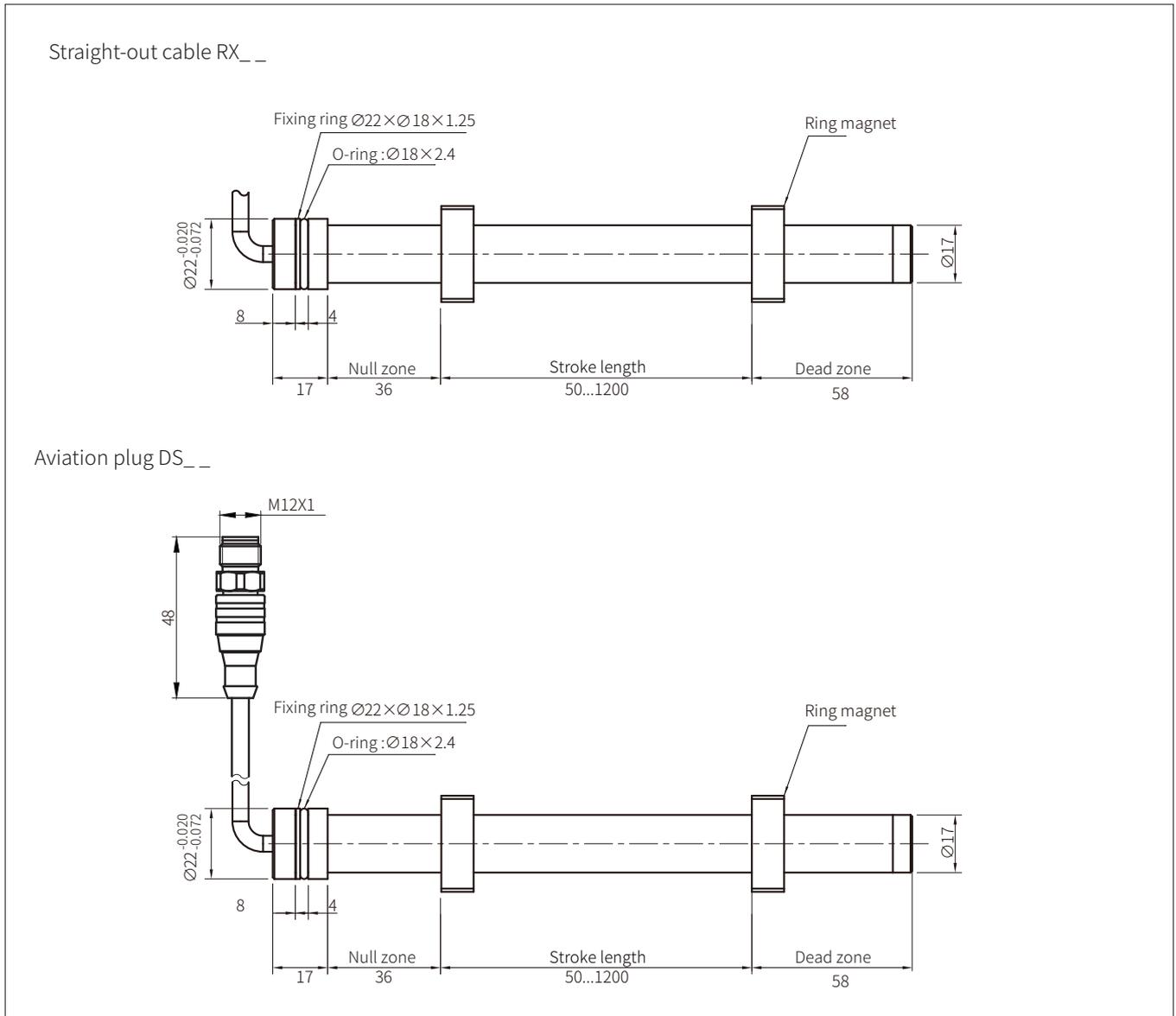
- + High vibration and shock resistance performance.
- + Compact design: suitable for applications with strict space requirements for the installation of electronics housing, extensive applications in construction machinery.
- + Robust and durable, fully enclosed design, highest IP68 protection level
- + Linear measurement, absolute value output without zeroing
- + Easy to use, standard signal output, maintenance-free
- + Maximum durability, continuous non-contact
- + Full scale adjustable, 100% adjustable zero and full scale



TECHNICAL PARAMETER

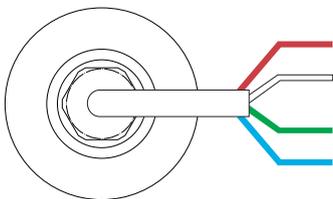
Input					
Measured data	Position				
Measurement range	50...1200mm				
Output					
Voltage	0.5...4.5VDC, 0.7...3.55VDC				
Resolution					
Resolution	14 bit D/A				
None-Linearity	< $\pm 0.2\%$ F.S.				
Repeatability	< $\pm 0.05\%$ F.S.				
Update time	<table border="1"> <tr> <td>Stroke length</td> <td>$\leq 1200\text{mm}$</td> </tr> <tr> <td>Update time</td> <td>0.5ms</td> </tr> </table>	Stroke length	$\leq 1200\text{mm}$	Update time	0.5ms
Stroke length	$\leq 1200\text{mm}$				
Update time	0.5ms				
Temperature coefficient	< 30ppm/°C				
Mounting					
Mounting position	Any				
Mounting form	Extrusion mounting				
Design/Material					
Electronics housing	Stainless steel 304				
Measuring rod	Stainless steel 304/316L				
Magnet	Standard magnet (copper or stainless steel)				
Operating pressure	35MPa (continuous), 70MPa (peak)				
Electrical connection					
Wiring connection	Straight out cable, aviation plug				
Operating voltage	+12VDC(-15/+20%)				
Polarity protection	Up to -28VDC				
Overvoltage protection	Up to +30VDC				
Power consumption	$\leq 30\text{mA}$				
Dielectric strength	500 VDC (DC ground to machine ground)				
Operating conditions					
Magnet velocity	Any				
Operating temperature	0...40°C, -30...80°C (Customizable)				
Humidity	90 % relative humidity, no condensation				
Ingress protection	IP68 (Highest)				
Explosion-proof type	Mine intrinsic safety type				
Explosion-proof mark	Ex ib I Mb				
Shock	100 g/11 ms, IEC standard 60068-2-27				
Vibration	15 g/10...2000 Hz, IEC standard 60068-2-6 (resonant frequencies excluded)				
EMC	Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2				

TECHNICAL DRAWING



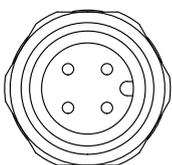
Wiring

Straight out cable	Color	Function
--------------------	-------	----------



Red	+12VDC (-15/+20%)
White	GND
Green	Signal output
Blue	SGND

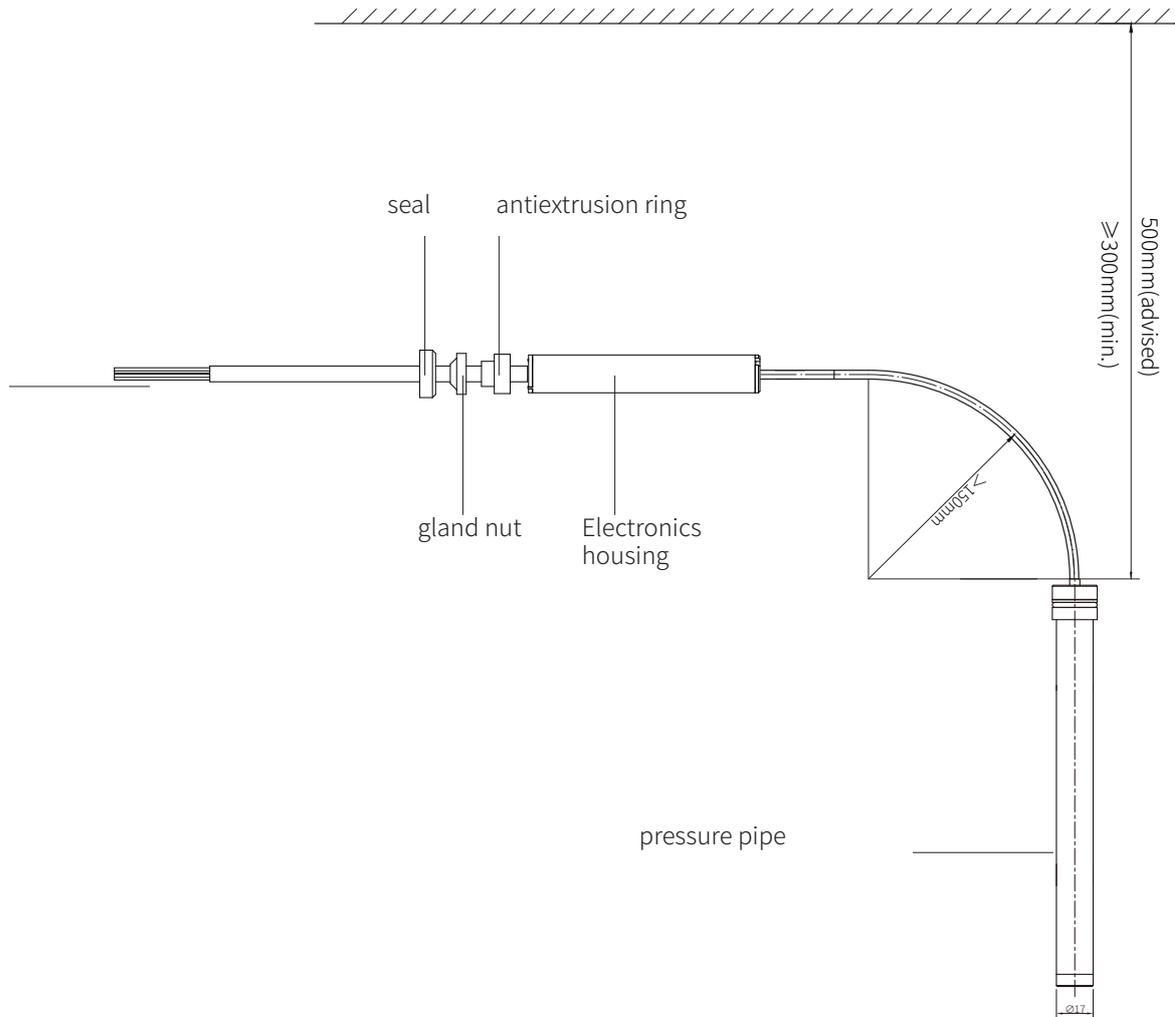
4 pin M12 connector	PIN	Function
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1	+12VDC (-15/+20%)
2	GND
3	Signal output
4	NC

MOUNTING DRAWING

- + The electronic cabin of GUC1200(C) flexible sensor is installed and fixed with compression nuts.
- + When arc measurement is adopted, the flexible pipe can be bended into required shape with min.
- + With long range sensor, pipes made of non permeable materials can be used as support. In addition, pressure pipe with flange can also be orderd to support and protect the sensor.



ORDER CODE

GUC1200(C) - - - - M - - - - -

Mounting	Stroke length	Connection type	Output
C Rod Φ 22mm	0050...1200mm (5mm increments)	RX__ Straight out __m coal safety cable (If the cable length is less than two digits, add zeros in front.)	(Output Code)
R Rod Φ 22mm with M4x6 thread		DS__ straight out __mm cable, with 4 pin aviation plug, unit: 10 millimetre; 01=10mm, 02=20mm...99=990mm)	
N Rod Φ 22mm,the end with oil hole			

Analog Output Code	[1][2][3]
	[1][2] Current/Voltage
	V5 0.5...4.5V (forward)
	VB 0.7...3.55 (forward)
	[3] Magnet
	1 one magnet

Note: Forward, data grows larger when the magnet is distant from the electronics housing;
Reverse, data grows larger when the magnet approaches the electronics housing.

Model selection

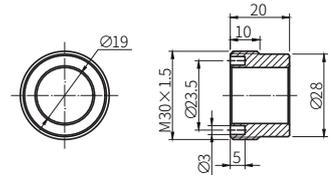
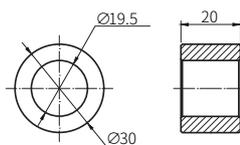
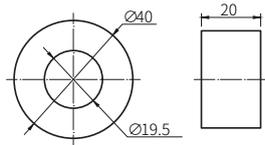
Model: GUC1200(C)-C-0100M-RX05-V51

Explanation: GUC1200(C) mine intrinsically safe displacement sensor, Rod Φ 22mm , range 100mm,
straight out 5m coal safety cable, 0.5 to 4.5V voltage output (forward), single magnetic ring.

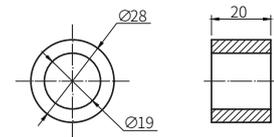
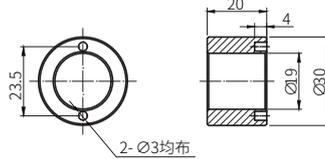
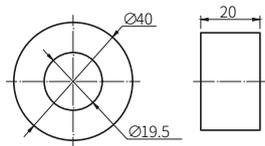
***This product is a mining product, the model must be GUC1200(C), please refer to the selection code when ordering.**



PARTS SELECTION



Name	Ring magnet	Ring magnet	Ring magnet
Operating temperature		-40~125°C	
Order code	12-1077(Stainless steel)	12-1078(Stainless steel)	12-1079 (H62)



Name	Ring magnet	Ring magnet	Ring magnet
Operating temperature		-40~125°C	
Order code	12-1081 (H62)	12-1083 (H62)	12-1100 (H62)



Connector	4 pin M12 female connector	5 pin female connector (90 degree angle)
Name	Integral cable (MA)	Integral cable (MA)
Color/Diameter	Blue/ Ø 8	Blue// Ø 8
Plug surface	 <ul style="list-style-type: none"> 1-Red 2-White 3-Green 4-Blue 	 <ul style="list-style-type: none"> 1-Red 2-White 3-Green 4-Blue
Length	5~30M	5/10/15/20/30M
Order code	16-1029	16-1027

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