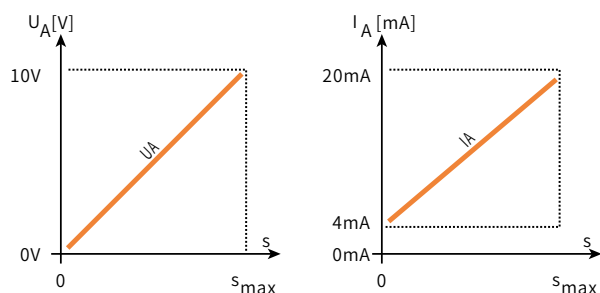




GUC2500 - Analog

GUC2500-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

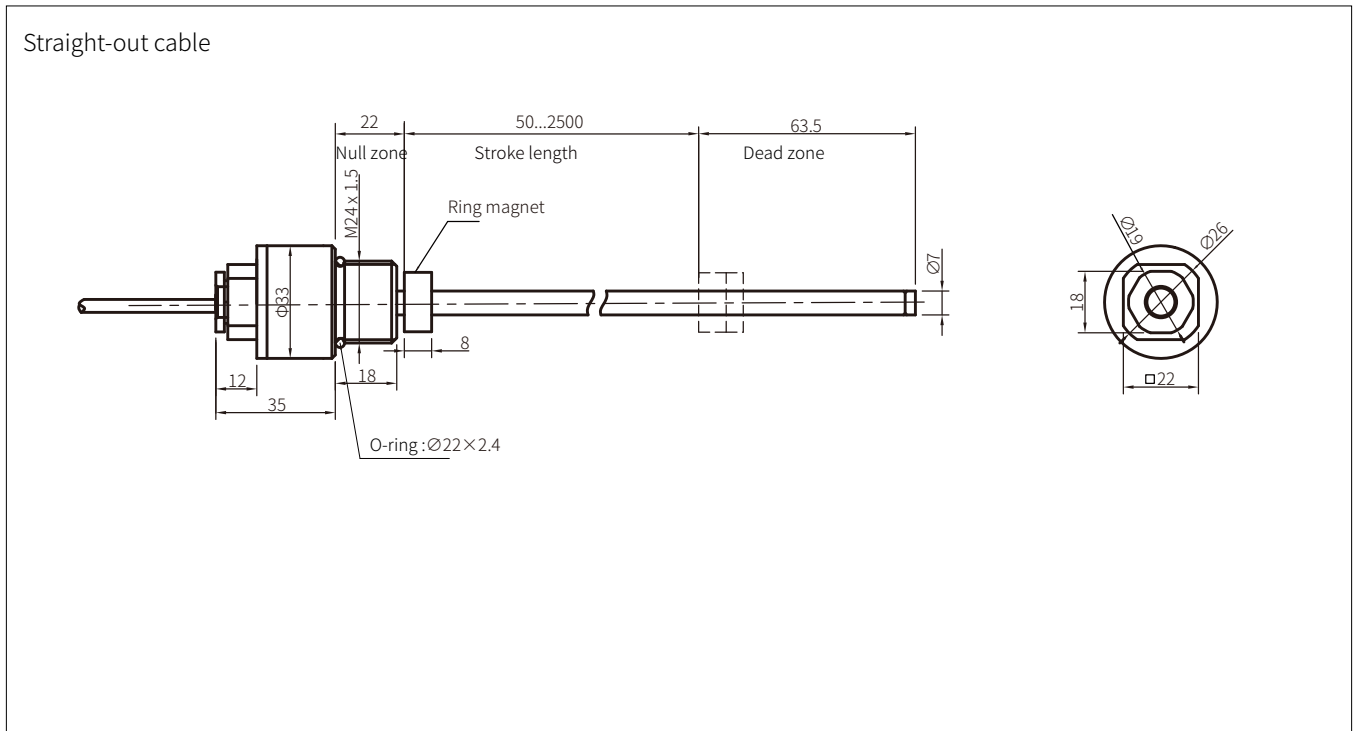


Document Number:
GUC2500-A(V1.0)-EN

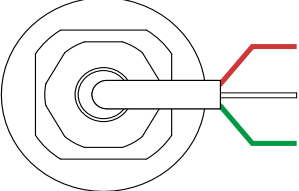
TECHNICAL PARAMETER

Input			
Measured data	Position		
Measurement range	50...2500mm		
Output			
Voltage	0~10VDC		
Current	4~20mA		
Resolution			
Resolution	16 bit D/A		
None-Linearity	< ±0.05%F.S.		
Repeatability	< ±0.05%F.S.		
Update time	Stroke length	≤ 1200mm	≤ 2500mm
	Update time	0.5ms	1ms
Temperature coefficient	< 30ppm/°C		
Mounting			
Mounting position	Any		
Mounting form	M24x1.5, M24x1		
Design/Material			
Electronics housing	Stainless steel 304		
Measuring rod	Stainless steel 304/316L		
Magnet	Standard magnet		
Operating pressure	35MPa (continuous), 70MPa (peak)		
Electrical connection			
Wiring connection	Straight out cable		
Operating voltage	+12VDC (-15/+20%)		
Polarity protection	Up to -36VDC		
Overtoltage protection	Up to +36VDC		
Power consumption	< 60mA		
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		
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

ORDER CODE

GUC2500 - - - - M - - - -

Mounting	Stroke length	Connection type	Output
C M24x1.5	0050~2500mm	RX__ Straight out __m coal safety cable	(Output Code)
R M24x1.5, with M4x6 thread	(5mm increments)	(If the cable length is less than two digits, add zeros in front.)	
W M24x1		DS__ straight out __mm cable, with 4 pin	
S M24x1, with M4x6 thread		aviation plug,	

Analog Output Code	[1][2][3]
	[1][2] Current/Voltage
	[3] Magnet
	A0 4...20mA (forward)
	V0 0...10V (forward)
	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

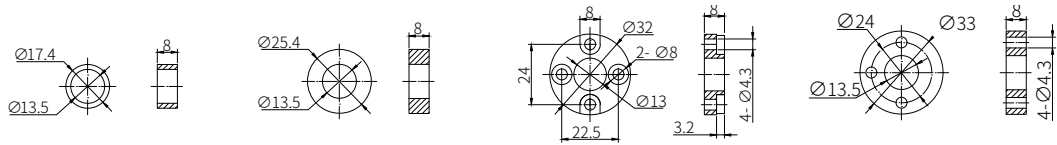
Model: GUC2500-C-0100M-RX05-V01

Explanation: GUC2500 mine intrinsically safe displacement sensor, mounting thread metric M24x1.5, range 100mm, straight out 5m coal safety cable, 0 to 10V voltage output (forward), single magnetic ring.

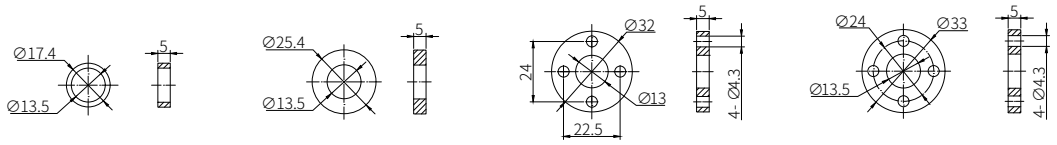
***This product is a mining product, the model must be GUC2500, please refer to the selection code when ordering.**



PARTS SELECTION



Name	Ring magnet	Ring magnet	Ring magnet	Ring magnet
Operating temperature	-40...125°C			
Order code	12-1032	12-1019	12-1024	12-1001



Fitting non-permeable gasket	Non-permeable gasket	Non-permeable gasket	Non-permeable gasket	Non-permeable gasket
Operating temperature	-40...125°C			
Order code	12-1037	12-1021	12-1025	12-1008

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