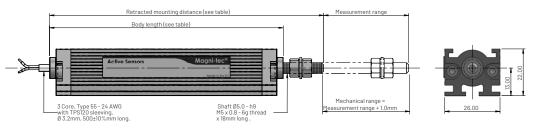
### MHL2600 Series - Magnetic Hall linear position sensor (Measurement range 50 - 300mm)

Square-bodied. Body clamp mounting. Shaft operated or Side operated carriage.



#### Dimensions for MHL2621 - Shaft operated



Clamping information
Mounting Clamp, 2 supplied. 4x M3x12mm Bolts supplied. 43.00
34.00

Measurement range	Body length	Retracted mounting distance	Approx. weight (grams)
50	120	139	114
75	145	164	135
100	170	189	156
125	195	214	177
150	220	239	198
175	245	264	219
200	270	289	240
250	320	339	282
300	370	389	324

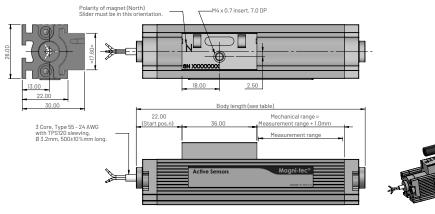
### Ordering information

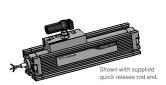
# MHL2621 XV-XX

# Output option (see graph) —

L = Retracted output increases R = Extended output increases Measurement range in mm

## Dimensions for MHL2624 - Side operated carriage





Mounting Clamp, 2 supplied. 4x M3x12mm Bolts supplied. 43.00 34.00

Clamping information

Measurement range	Body length	Approx. weight (grams)
50	120	93
75	145	114
100	170	135
125	195	156
150	220	177
175	245	198
200	270	219
250	320	261
300	370	303

# Ordering information

#### MHL2624 XV-XX

Output option (see graph) — L = Retracted output increases R = Extended output increases

### MHL2600 Series - Magnetic Hall linear position sensor (Measurement range 50 - 300mm)

Square-bodied. Body clamp mounting. Shaft operated or Side operated carriage.



#### Electrical and mechanical specification for MHL2600

Parameters		Values		Units
		Input specification		
Supply voltage (Vs)		5.0±10% regulated	8 to 30 unregulated	VDC
Over voltage pr	otection	Up to 50		VDC
Supply current		During power on settlement <100,	nominal operation <45	mA
Reverse polarit	y protection	Up to -50	Up to -50	
Power on settle	ment time	<250		ms
Input voltage ris	se time	0.25 minimur	n	V/ms
		Output specification		
Output type		Analogue volta	age	
Output directio	n	See output characteris	stics graph	
Voltage output	(Vout)	0 to Vs	0 to 5	VDC
Line regulation		Ratiometric with Vs	<0.01	%FS
Monotonic rang	e	1 to 99% measureme	ent range	
Load resistance	e	>10K		Ohms
Output noise		<5		mV RMS
		Performance specification	חנ	
Resolution		0.025		% of measurement range
Sensitivity (Note 2)		ldeal span (5000mV) / Measurement range(mm)		mV/mm
Sensitivity tolerance		<±2.5		%FS
Non-Linearity (Note 5)		<±0.5		%FS
Temperature coefficient (Vout)		<±0.003	<±0.011	%FS/°C
Update rate (nominal)		800		Hz
Max operating speed		1000		mm/s
		General specification		
IP rating		IP68 and IP69K		
Shaft operation force (typical)		20		grams
Dither life		Contactless - no degradation		
Operational temperature		-40 to +125	See de-rating graph	°C
Storage temperature		-55 to +150		°C
	Sensor	Case - Anodised aluminium, Shaft - Stainless steel 316		
Makadal	Clamps	Steel BZP		
Materials	Rod ends	Body: Anodised aluminium, Spherical Ball: Nickel plated steel		
	QR ball joints	Body: Nylon, Ball Joint: Steel BZP		

#### Notes

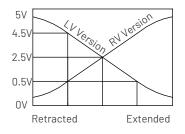
- 1. Incorrect wiring may cause internal damage.
- 2. Sensitivity and non-linearity are calculated from least squares best fit method.
- 3. Due to the Hall effect technology used in this device, close proximity of ferrous materials and magnetic fields may influence output.
- 4. Do not operate sensor between 5.5V and 8V.
- 5. General dimension tolerance is ±0.25mm.

## MHL2600 Series - Magnetic Hall linear position sensor (Measurement range 50 - 300mm)

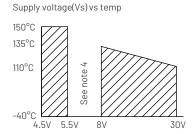
Square-bodied. Body clamp mounting. Shaft operated or Side operated carriage.



### Output characteristics



## Temperature de-rating

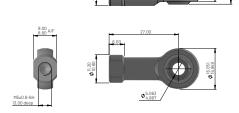


### Electrical connections (see note 1)

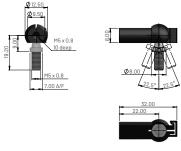
Wire Colour	Function
Red	Supply Voltage (Vs)
White	Output Voltage (Vout)
Black	Ground

#### Accessories

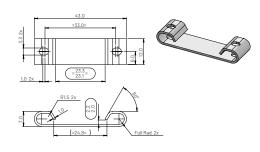
#### 5mm rod end



## Quick release ball joint



# Base clamp



# Ordering code

#### PT1922-0104-19

Material		
Housing	Aluminium alloy, anodised black	
Ball	Steel BS970 230M07, electroless nickel plated	
Race	Gr nylon	

# Ordering code

### JN029-007

Material		
Body	PA66, black	
Ball stud	Hardened carbon Steel: zinc plated, clear passivate	

# Ordering code

## PT2600-6109

	Material
Plain carbon steel	
Finish: Bright zinc plate	

# Europe

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#### North America

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