

Throttle Valve Angular Sensors

Useful electrical angular range	≤86°	≤88°
Useful mechanical angular range	≤88°	≤92°
Total resistance	2kΩ (±20%)	2kΩ (±20%)
Operating voltage (supply)	5V	5V
Permissible wiper current	≤18μA	≤20μA
Operating temperature	-30°C to +110°C	-30°C to +85°C
Fixing holes (∅ distance apart)	5 55mm	4.8 70mm
Body dimensions (L W D)	16 68 48mm	22 85 67mm
No. of characteristic curves	1	2
Mfrs. List No.	0280 122 001	0280 122 201
Order Code	712-2299	712-2305

Potentiometric Angular Sensors

Electrical angle of rotation	93° ± 2°	93° ± 2°
Mechanical angle of rotation	122° ± 2°	122° ± 2°
Total resistance	4kΩ (±20%)	4kΩ (±20%)
Operating voltage (supply)	5V	5V
Wiper current (max.)	10mA	10mA
Degree of protection	IP54	IP54
Operating temperature	-30°C to +105°C	-30°C to +105°C
Fixing centres (∅ distance apart)	4.6 33mm	4.6 33mm
Body dimensions (L W D)	160 43 13mm	160 43 13mm
Direction of rotation	Clockwise	Anti-clockwise
Mfrs. List No.	0261 211 004	0261 211 003
Order Code	712-2317	712-2329

SAT128

	Order Code	1+	5+	10+	25+
Throttle-valve Angular Sensors					
One linear charc. curve	712-2299				
Two linear charc. curves	712-2305				
Potentiometric Angular Sensors					
Clockwise rotation	712-2317				
Anti-clockwise rotation	712-2329				
Mating connector for 712-2299	711-9951				

Miniature Industrial Transducers



- Linearity of better than 0.1%
- Dual wiper design on Myst R[®] plastic element
- Extruded wiper block guides
- Internal spring-loaded ball joint
- Stainless steel shaft

- Anodised extruded aluminum housing
- Fits into tight spaces, clamps easily to cylinders

Small diameter linear position sensor, rugged enough to withstand a hostile environment and easy to interface without additional amplifiers.

Independent linearity	> ±0.1%
Resistance per 25mm	LT Series = 1000W, MLT Series = 1500W (electrical travel)
Resistance tolerance	±20%
Operating temp. range	-40°C to +80°C
Starting force	29g
Resolution	Infinite
Shaft thread	M6
Dimensions, MLT Series	Housing: L = electrical travel + 30.48, ∅ = 9.53 Shaft: L = 19.05 (retracted)
Dimensions, LT Series	Housing: L = electrical travel + 38.1, ∅ = 12.7 Shaft: L = 25.4 (retracted)

Measuring Range	Electrical Travel (mm)	Mfrs. List No.	Order Code
MLT Series			
25mm	25.4	06LTM0025A	708-8530
50mm	50.8	06LTM0050A	708-8541
75mm	76.2	06LTM0075A	708-8553
100mm	101.6	06LTM0100A	708-8565
125mm	127.0	06LTM0125A	708-8577
LT Series			
150mm	152.4	06LT0150A	708-8589
200mm	203.2	06LT0150A	708-8590
250mm	254.4	06LT0250A	708-8607

SAT83

Measuring Range	Mfrs. List No.	Order Code	1+	10+	25+
25mm	06LTM0025A	708-8530			
50mm	06LTM0050A	708-8541			
75mm	06LTM0075A	708-8553			
100mm	06LTM0100A	708-8565			
125mm	06LTM0125A	708-8577			
150mm	06LT0150A	708-8589			
200mm	06LT0200A	708-8590			
250mm	06LT0250A	708-8607			

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Heavy-Duty Industrial Transducers



- Over 2mm thick housing with 6mm stainless steel shaft seals
- Myst R[®] plastic element tested to 1000 million operations
- High performance bearings
- Absolute continuous measurements
- Rugged construction for factory environment

Rugged linear sensor used on a wide variety of manufacturing and process equipment. The mechanical design of the unit has front and rear bearings, anodised extruded aluminum housing and stainless steel shaft.

Applications:- Injection moulding machines, printing presses, meat packing equipment, drill presses, cranes, scales, front-end loaders, wood-working machines.

Independent linearity	> ±0.1%
Operating temperature range	-65°C to 105°C
Total resistance (electrical travel)	Short Longfellow Series = 1500Ω/25mm Longfellow II Series = 5000W total (all lengths)
Resistance tolerance	±20%
Watts per 25mm	0.75
Shaft starting force	0.45 kg
Resolution	Infinite
Shaft thread	M6
Dimensions	Housing: L = see below, W = 22.8, H = 22.8 Fixing centres (bracket): 34.4, 2 3.9 ∅ Shaft: L = 34.5 (retracted), M6 1 thread

Measuring Range	Housing Length	Electrical Travel	Mfrs. List No.	Order Code
Short Longfellow[®] Series				
25	103	25.4	06LF0025A	708-9028
50	128	50.8	06LF0050A	708-9030
100	177	101.6	06LF0100A	708-9041
150	227	152.4	06LF0150A	708-9053
Longfellow[®] II Series				
225	319	229.0	06LF0225A	708-9065
300	395	305.0	06LF0300A	708-9077
450	548	457.0	06LF0450A	708-9089

SAT84

Measuring Range	Mfrs. List No.	Order Code	1+	10+	25+
25	06LF0025A	708-9028			
50	06LF0050A	708-9030			
100	06LF0100A	708-9041			
150	06LF0150A	708-9053			
225	06LF0225A	708-9065			
300	06LF0300A	708-9077			
450	06LF0450A	708-9089			

Total Customer Care

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Free Technical Support

Our trained engineers are available to help you select the right item. Call us on (65) 788 1922 or e-mail singapore-technical@farnell.com we're here to help.