





Intelligent Shutter Safety

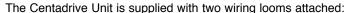
technical data sheet

Component

Centadrive Unit

Description

A 3.1 metre long extrusion of aluminium alloy 6061 forms the basis of the Centadrive assembly. The extrusion houses a continuous toothed drive belt with drive pulley wheels at each end and forms a platform to mount a 24 volt motor with integral gearbox, Reed Switch with Hall sensors, and a shuttle mechanism with a stainless steel cowling.



- 1 x 6 metre Motor Loom with heavy duty moulded plug (rated to IP65)
- 1 x 6 metre Reed Switch & Hall Sensor Loom with heavy duty moulded plug (rated to IP65)

The extruded track is manufactured from aluminium alloy 6061 and is one of the most extensively used of the 6000 series aluminium alloys. It is a versatile heat treatable extruded alloy with medium to high strength capabilities.



- · Medium to high strength
- · Good surface finish
- Good corrosion resistance to sea water
- · Good toughness
- · Good workability
- · Good weldability and brazability
- · Excellent corrosion resistance to atmospheric conditions

Composition

Amount	(% weight)
Aluminium	Balance
Magnesium	0.8-1.2
Silicon	0.4 - 0.8
Iron	0.7 max
Copper	0.15-0.40
Zinc	0.25 max
Titanium	0.15 max
Manganese	0.15 max
Chromium	0.04-0.35
Others	0.05

Physical Properties

Density 2.7 g/cm3 Melting Point 580°C aprox 70-80 GPa Modulus of Elasticity Poissons Ratio 0.33

Thermal Properties

Co-Efficient of Thermal Expansion (20-100°C) 23.5x10-6 m/m.°C Thermal Conductivity: 173 W/m.K

Electrical Properties

Electrical Resistivity $3.7 - 4.0 \text{ x} 10 - 6 \Omega.\text{cm}$



Note: Centadrive is subject to a continuous product improvement program

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and, as such, product design and specifications included in this publication are subject to change without prior notice.