



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.

The Centadrive Unit is supplied with two wiring looms attached:

- 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.

Key Properties

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

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
Modulus of Elasticity	70-80 GPa
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 x10-6 Ω.cm
------------------------	----------------------



Fast, easy to fit, remote control unit, designed specifically for multi-drop delivery vehicles

Note: Centadrive is subject to a continuous product improvement program and, as such, product design and specifications included in this publication are subject to change without prior notice.