SWS HARDWARE

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TECTUS ENERGY 3D Adjustable Concealed Hinge 155 x 21mm 60KG - SW125 F2 Satin Nickel Look

Variant code: TE240.3D.EGY.F2

The **TECTUS ENERGY 3D Adjustable Concealed Hinge** combines a completely concealed hinge system with **permanent energy transfer** for sophisticated residential door installations. Designed for **unrebated and rebated flush residential doors**, it provides discreet hinging while allowing electrical energy to be transferred through the door and frame for compatible electronic door components.

With a manufacturer-specified **60kg load capacity** and an overall length of **155mm**, this concealed hinge is suitable for **timber, steel and aluminium frames**. The frame part measures **21mm wide**, while the door part measures 18mm wide, and the hinge is suitable for doors with a minimum thickness of **24mm**.

Comfortable **3D adjustment** allows accurate alignment after installation, with **±3mm side adjustment, ±3mm height adjustment and ±1mm compression adjustment**. Combined with **maintenance-free slide bearings**, an opening angle of up to **180°** and integrated permanent energy transfer, it provides a versatile solution for high-quality residential door systems requiring concealed electrical functionality.

Product Features

- **Completely concealed hinge system** for clean architectural door designs
- Integrated **permanent energy transfer**
- Designed for **unrebated and rebated flush residential doors**
- Suitable for **timber, steel and aluminium frames**
- Manufacturer-specified **60kg load capacity**
- Overall hinge length of **155mm**
- **21mm frame part width**
- **18mm door part width**
- Suitable for doors with a minimum thickness of **24mm**

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- Comfortable **3D adjustment** for precise door alignment
- **Side adjustment:** ±3mm
- **Height adjustment:** ±3mm
- **Compression adjustment:** ±1mm
- Features **maintenance-free slide bearings**
- Opening angle of up to **180°**
- Designed for use with individual **connection adapter options**

Product Benefits

- **Permanent energy transfer provides a discreet integrated solution for compatible electrically operated door components**
- **Completely concealed installation maintains clean, uninterrupted door and frame lines when the door is closed**
- **3D adjustment enables precise side, height and compression correction for accurate door positioning after installation**
- Suitable for both **unrebated and rebated flush residential doors**, providing flexibility across different door constructions
- Compatibility with **timber, steel and aluminium frames** supports a broad range of architectural installations
- **Maintenance-free slide bearings** help minimise routine hinge maintenance
- **60kg load capacity** provides dependable support for appropriately specified residential doors
- An opening angle of up to **180°** provides a wide operating range where permitted by the surrounding installation

Technical Characteristics

- **Product Type:** 3D Adjustable Concealed Hinge with Permanent Energy Transfer
- **Load Capacity:** 60kg
- **Overall Length:** 155mm
- **Frame Part Width:** 21mm
- **Door Part Width:** 18mm
- **Minimum Door Thickness:** 24mm
- **Side Adjustment:** ±3mm
- **Height Adjustment:** ±3mm
- **Compression Adjustment:** ±1mm
- **Opening Angle:** 180°
- **Cutter Diameter:** 16mm
- **Collar Ring Diameter:** 30mm
- **Bearing System:** Maintenance-Free Slide

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Bearings
- **Energy Transfer:** Permanent
- **Wire Cross Section:** 0.14mm²
- **Number of Wires:** 16
- **Maximum Voltage:** 50V
- **Maximum Current:** 0.8A
- **Frame Compatibility:** Timber, Steel & Aluminium
- **Door Type:** Unrebated & Rebated Flush Residential Doors
- **Certifications / Quality Marks:** CE & IFT
- **Classification:** EN 1935 / EAD - 2 7 2 0 1 — *1 0 7

Applications

The **TECTUS ENERGY 3D Adjustable Concealed Hinge** is designed for **unrebated and rebated flush residential doors** requiring a completely concealed hinge combined with **permanent energy transfer**. Suitable for **timber, steel and aluminium frames**, it is particularly suited to high-quality residential and architectural door systems incorporating compatible electronic components. Its **60kg load capacity, precise 3D adjustment, maintenance-free slide bearings and 180° opening angle** provide a versatile solution where concealed aesthetics, accurate alignment and integrated electrical functionality are required.

Property	Value
Finish	Satin Nickel Look
Opening angle (°)	180
Load Capacity (kg)	60
Width Door Part (mm)	18
Width Frame Part (mm)	21
Cutter diameter (mm)	16
Collar ring diameter (mm)	30
Min Door Thickness (mm)	24
Overall Length (mm)	155
Certification	CE & IFT
Wire Cross Section	0.14 mm²
Max. Voltage (V)	50

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Property	Value
No. of Wires	16
Max. Current (A)	0.8