



Doc number: 1262.D.01.0008_3

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GARAGE DOOR OPERATORS

SDO4 SMART QUICK GUIDE



SDO4 SMART

Centurion Systems (Pty) Ltd
www.CentSys.com



1. Introduction

This guide is designed specifically for installers who are familiar with the installation of standard garage door motors, but do not know the specifics of the **SDO4 SMART**.

2. Important Safety Instructions

Please refer to the full installation manual in the MyCENTSYS Pro mobile application for the full safety instructions.

Please do not proceed with the installation until you have read and fully understand the Safety Instructions.

3. Icons used in this manual

This icon denotes variations and other aspects that should be considered during installation.

This icon indicates warning, caution or attention!
Please take special note of critical aspects that MUST be adhered to in order to prevent injury.

4. General Description

The **SDO4 SMART** has been designed to automate domestic garage doors safely, quietly and reliably.

The product's belt-driven system allows for whisper-quiet operation, while reliable battery backup ensures that the **SDO4 SMART** will continue working even during lengthy power outages.

In addition, the **SDO4 SMART**'s built-in collision sensing circuitry makes it a very safe automation solution. Kits are available for both sectional and tip-up garage doors.

5. Technical Specifications

	T10	T12
Input voltage	230V AC @ 50/60Hz ¹	
Motor voltage	24V DC	
Motor power - rated	80W DC	100W DC
Motor supply	Battery supply 2x 12V 3.4Ah	Battery supply 2x 12V 3.4Ah
Max door width	6500mm	
Max door area	12 square metres	15square metres
Maximum push/pull force	40kgf	50kgf
Max holding capacity	1000N	1200N
Operations in standby mode	Up to 90 depending on the door size / weight / height / duration of power failure / condition of batteries	
Maximum operator travel speed ²	9m/min	
Door travel adjustment	Physical Endstops (Automatic limit set)	
Safety obstruction force system	Built-in menu	
Light	LED 2W	
IP Rating ³	IP60	
Autoclose ⁴	Menu Selectable	
Infrared safety beams	Menu Selectable. (Optional, but recommended)	
Radio receiver	Code-hopping 433MHz	
Receiver code storage capacity	20x 4-Button NOVA transmitters	

TABLE 1

- 1: Can operate off a solar supply, please consult Centurion Systems (Pty) Ltd for assistance
- 2: Speed varies with load
- 3: This product is intended for indoor use only. If the intent is to use this product outdoors, it is critical to have it fully protected from any water ingress
- 4: Requires infrared safety beams to be fitted

6. Preparation of Site

Always recommend the fitment of additional safety equipment such as safety edges and safety beams, for additional protection against entrapment or other mechanical risks.

Ensure that no pipes or electrical cables are in the way of the intended installation.

Install the garage operator only if:

- It will not pose a hazard to the public
- The installation will meet all municipal and/or local authority requirements once completed
- The door mass and application is within the operator specifications

- There is a properly-earthed general purpose 220-240V AC power outlet that has been installed by a qualified electrical contractor
- All locks, ropes and / or securing mechanisms have been removed
- The ceiling structure is adequate enough to support the weight of the **SDO4 SMART**
- The garage door is in good working order, meaning:

- it opens freely;
- it is well-balanced;



An improperly-balanced or malfunctioning garage door could cause serious personal injury, death and / or property damage. Have a qualified person check and, if required, make repairs to the garage door before installing the **SDO4 SMART**.

- it does not move on its own if left in any position for more than 100mm;
- it can be installed to have sufficient clearance between moving parts when opening or closing to reduce the risk of personal injury and / or entrapment



Attempting to repair the garage door without suitable technical qualifications, may result in severe personal injury, death, and / or property damage.

7. Identifying Garage Door Type

Identify the garage door type and then select the preferred installation method and assembly type that is best-suited to the application.

Sectional doors

- Use a 3247mm one-piece drive rail
- The standard 3247mm drive rail will lift a door up to 2440mm high. (An optional drive rail extension kit is available for doors over 2440mm high)
- The **SDO4 SMART** is supported by the drive rail hanger which is hung from the ceiling using appropriate hanging material
- The drive rail must be parallel with the ceiling as shown in Figure 1.
- The header bracket may be mounted on the front wall of the garage or on the ceiling adjacent to the front wall

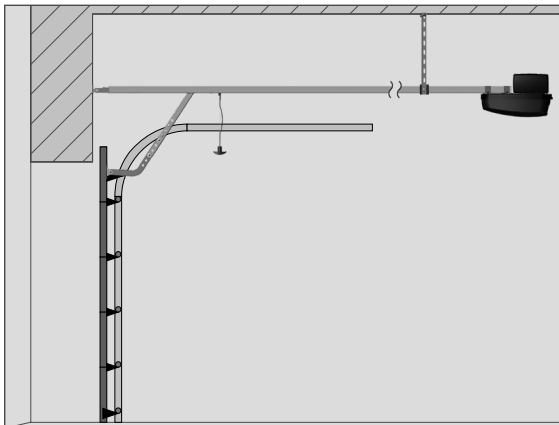


FIGURE 1

Tip-Up doors

- Use a 2097mm one-piece drive rail
- The **SDO4 SMART** is supported by the drive rail hanger which is hung from the ceiling using appropriate hanging material
- The drive rail must be angled, so that the pivot points at each end of the connecting arm should be as close to horizontal as possible when the door is in the fully open position
- The header bracket may be mounted on the front wall of the garage or on the ceiling adjacent to the front wall

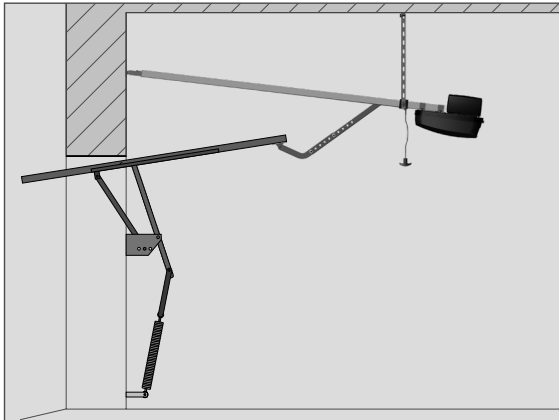


FIGURE 2

8. Operator Installation

8.1 Sectional Doors

Determine the highest arcing point of the garage door and mark this as a horizontal line on the header above the top edge of the garage door.

Close the garage door, and determine the garage door center line and mark a vertical line on the header above the door.

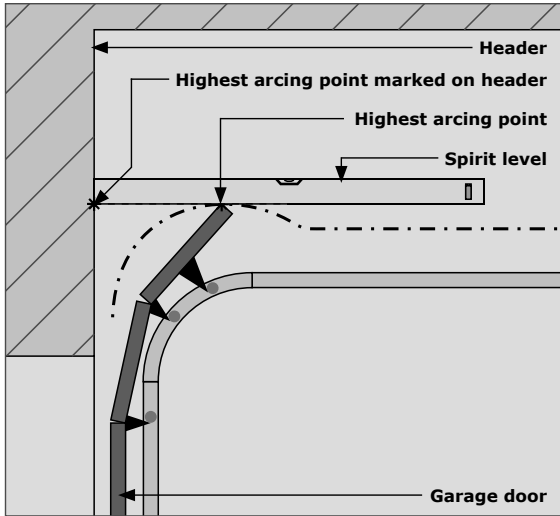


FIGURE 3

Mounting the Header Bracket

Place the header bracket on the wall as shown in Figure 4. Ensure that the **bottom edge** of the bracket is level, and **no more than 50mm above** the highest arcing point of the garage door. Mark the location of the four screw holes (Hole A, B, C and D[optional]).

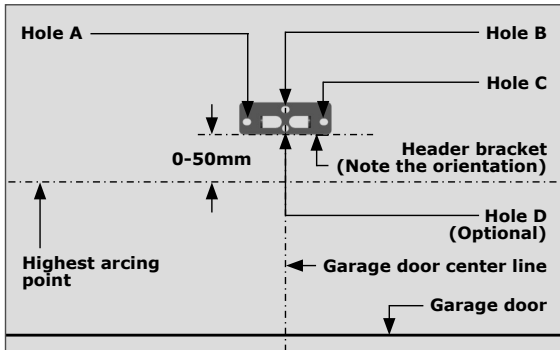


FIGURE 4

Warning: Mounting the drive rail more than 50mm above the highest arcing point of the garage door may cause the drive rail to flex excessively.

Place a fischer plug in each hole, followed by the header bracket. Secure it in position with at least three coach screws (supplied) (13mm hexagonal head).

Ensure that the tabs are level using a spirit level. Gently tap them with a hammer if they are not

Mounting the SDO4 SMART to the header bracket

Position the **SDO4 SMART** in place, with the open end of the drive rail facing the floor, and the tensioning bracket towards the garage door. You will need a second person to assist you with this.

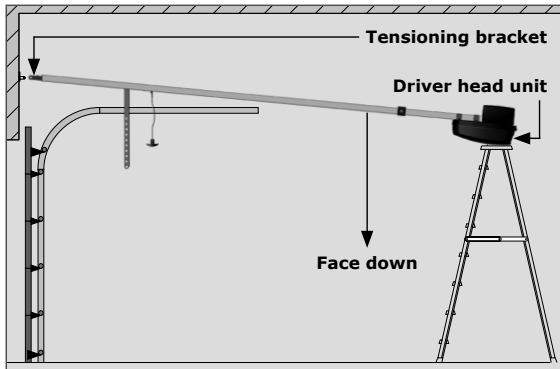


FIGURE 5

Locate the long clevis pin through the holes and secure it into position with a supplied Circle Clip on the other end of the clevis pin.

Mounting the SDO4 SMART drive rail to the ceiling

Open the garage door, and gently rest the **SDO4 SMART** on top of the open door.

Find the centre line of the garage door, and mark it on the ceiling above the location of the drive rail hanger.

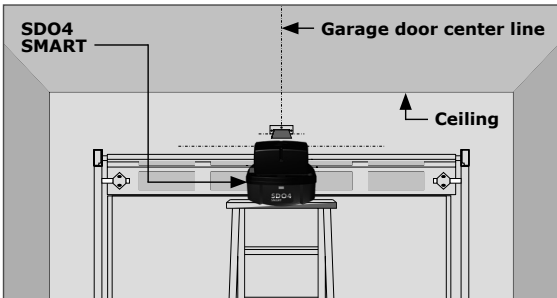


FIGURE 6

Use a two spirit levels long the length of the **SDO4 SMART** drive rail, and level out the **SDO4 SMART**, so that it is running parallel to the ceiling.

Place another spirit level perpendicular to the ceiling, and line it up with the center of the drive rail hanger bolt on the side of the drive rail hanger. Make a mark on the ceiling, and repeat this for the other side of the drive rail hanger.

Draw a line on the ceiling joining these two marks, perpendicular to the garage door center line made earlier.

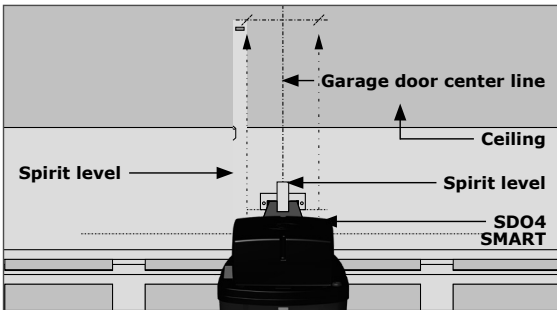


FIGURE 7

Ensure that the drive rail hanger bracket is positioned directly under a **strong** structural member of the ceiling. If it is not, move it along the drive rail to a suitable position before marking it off on the ceiling.

Align the punched angle iron centered onto the garage door centre line, and the perpendicular line running along the center of the horizontal face holes.

The horizontal face must face the back of the garage. Secure the punched angle iron to the ceiling with suitable screws (depending on the structural member of the ceiling).

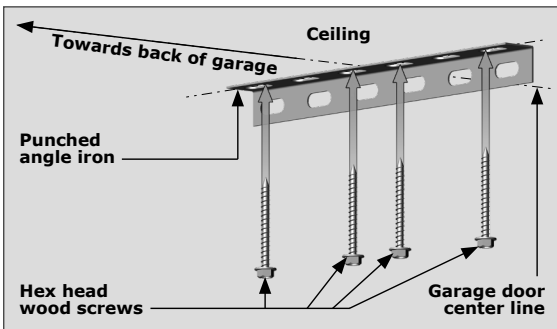


FIGURE 8

Level the **SDO4 SMART** again, and measure the length needed from the ceiling to the underside of the drive rail (Value X).

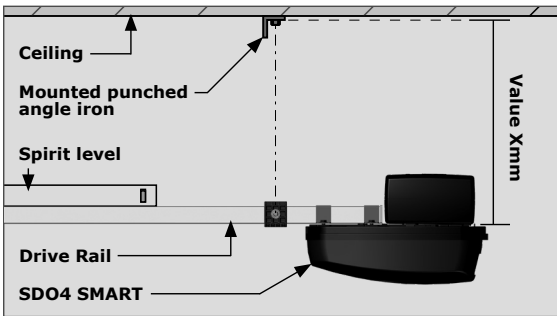


FIGURE 9

