



FSS1

High-security door
position sensor



Overview

The FSS1 Series of high-security Door Position Sensors (DPS) are designed to provide a true high-security solution with adjustable anti-tamper features to help prevent against attacks through magnetic, electronic or physical means. It is a state-of-the-art monitoring solution with a flush mount version for new construction, and surface mount version as a superior replacement for traditional magnetic balanced reed sensors.

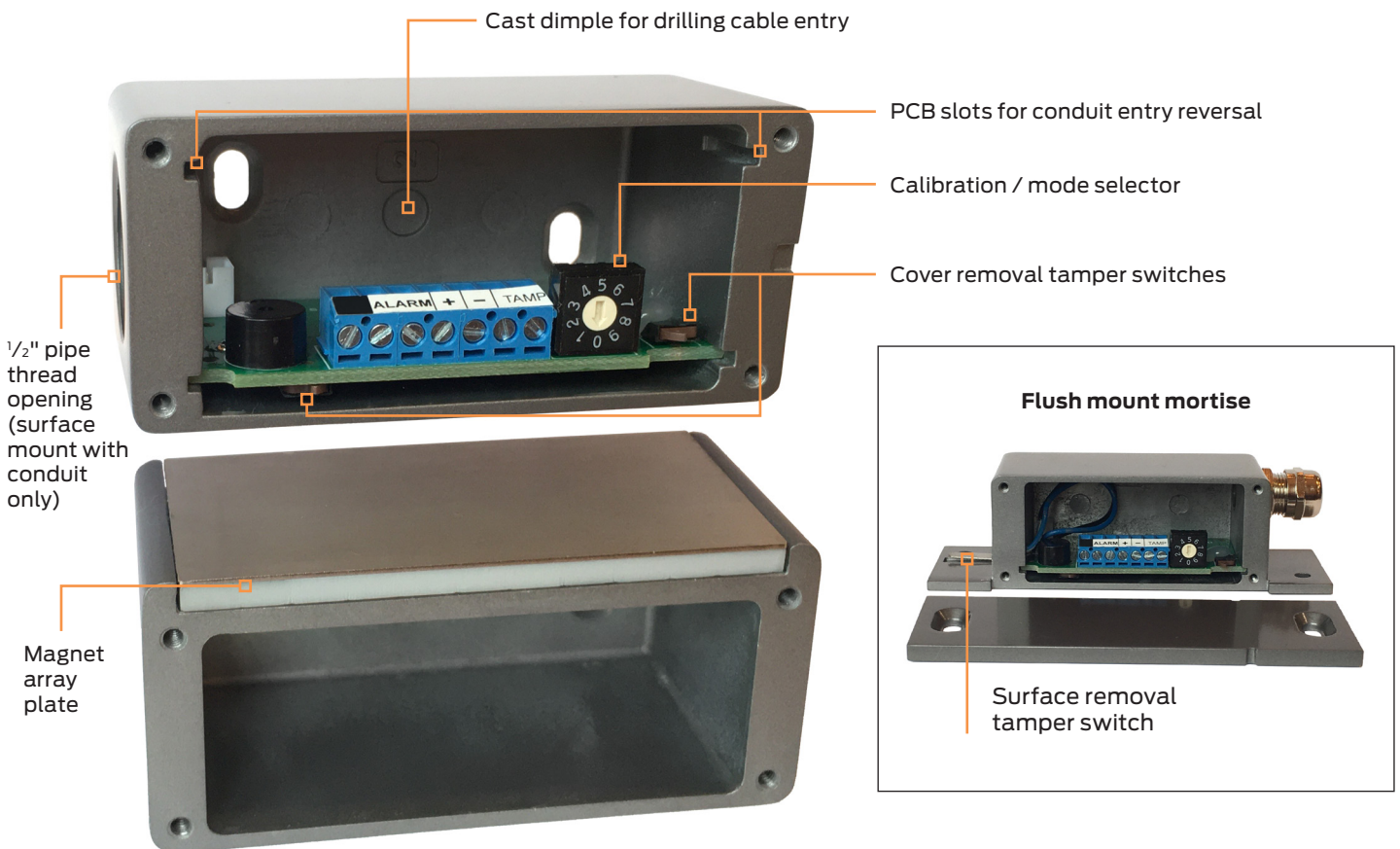
Specifically developed for high-security applications in government and military installations, FSS1 Series high-security DPS consist of magnetic sensors that are used to detect a unique magnetic footprint from an array of magnets on the opposing magnetic faceplate. The FSS1 learns its three-dimensional environment using one sensor to detect the distance of the magnetic faceplate in relation to the device, while the other sensors are used to determine the polarity, size, strength and position of the magnets on the unique faceplate. This three-dimensional data is registered into the memory of the device. Any interruption, change or tampering with the device cover will trigger a response at the door and/or through the network as a silent or audible alarm.

Features and benefits

- Ideal for high security applications including server farms, government facilities, and military bases
- Utilizes sensors to detect a unique magnetic footprint created from an array of magnets in the faceplate
- Sensors “learn” a three-dimensional unique magnetic signature created by the polarity, size, strength, and position of the magnetic array plate
- Sensors can be recalibrated to accommodate for door replacement or maintenance
- Anti-tamper feature creates an audible and/or network notification in case of tampering to either the magnetic field or the device cover
- Low voltage, solid-state components
- 3 models: surface mount with conduit, surface mount no conduit, and flush mount (hinged doors only)
- Can be deployed in existing and new high-security facilities

FSS1 high security DPS specifications

Part number	194555101647	194555101654	194555101661
Part description	Surface mount with conduit	Surface mount without conduit	Flush mount mortised
Door type	Hinged	Hinged	Hinged
Voltage / current	10-30VDC/<45mA	10-30VDC/<45mA	10-30VDC/<45mA
Sensor	Hall effect	Hall effect	Hall effect
Alarm and tamper contacts	2 by N.C. (normal closed) common N.O. (normal open), 0.2A @ 30V		
Door gap	.04-.26in vertical door gap, and up to .59in door movement for alarm to trigger 1-7mm vertical door gap, and up to 15mm door movement for alarm to trigger		
End of line compatibility	Space for type 1 and 2 end-of-line encryption modules		
Dimensions	L=2.96in H=1.34in D=1.38in L=75mm H=34mm D=35mm	L=2.96in H=1.34in D=1.38in L=75mm H=34mm D=35mm	L=4.33in D=1.26in W=1.38in L=110mm D=32mm W=35mm
Approvals	UL 634 High Security Level 2 - listed equipment BP9752		
Patents	Patents granted and pending worldwide based on PCT/AU2014/000210		
Manufacture	Designed and manufactured in Australia		



About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions. Allegion had \$2.7 billion in revenue in 2020, and its security products are sold around the world. For more, visit www.allegion.com

