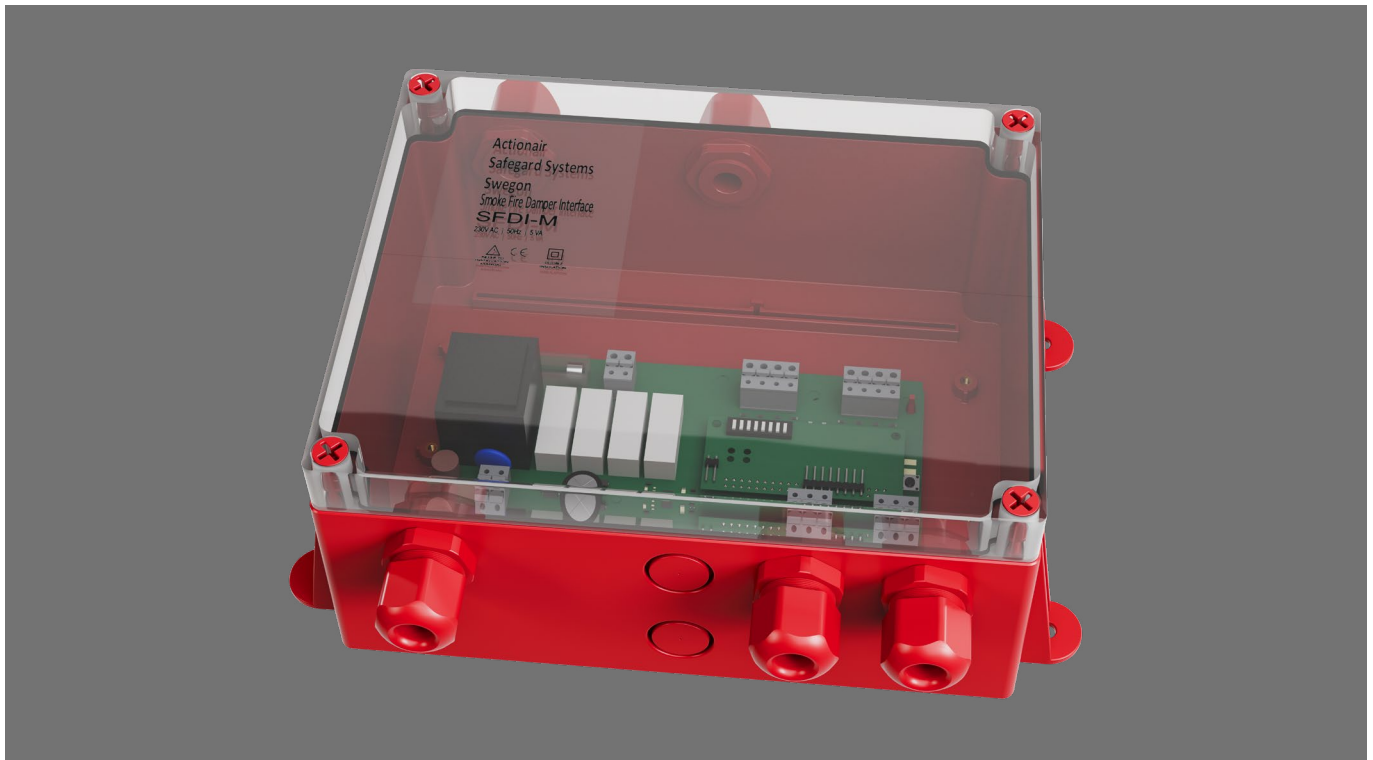


SFDI

Smoke Fire Damper Interface

TWO-POSITION DAMPER INTERFACE (SFDI-M/FT, FDI-M/FT, SDI-M/FT)

MODULATING DAMPER INTERFACE (3P-SFDI-M/FT)



QUICK FACTS

- Interfaces between the Actionpac intelligent control panel and the damper actuator.
- Controls and/or monitors damper actuator positions.
- Different versions available for control of spring return, drive-open/drive-closed, and modulating actuators.
- Compact and robust design of the interface enclosure.
- Can be mounted to a block wall or a stud wall.
- Each variant available either for 24 V or 230 V power supply.

Smoke Fire Damper Interface

Actionpac Damper Interface is a communication device that controls and/or monitors spring-return, drive-open/drive-closed, and modulating damper actuators.

A series of LED indicators provides instant feedback on the relevant functions of the device, including position, fault, and online/offline status.

Actionpac Damper Interface is available with Modbus (M) or LonWorks (FT) communication protocols.

While two-position dampers are controlled or monitored centrally through the damper control system, modulating dampers can additionally be balanced from the interface itself or by the Building Management System (BMS)

Actionpac Damper Interface has compact dimensions and is robust enough to withstand normal wear and tear in most environments.

Options

Two-Position Damper Interface (SFDI-M/FT, FDI-M/FT, SDI-M/FT)

The Actionair by Swegon Two-Position Damper Interface provides a communication device to control or monitor dampers.

Smoke Fire Damper Interface (SFDI-M/FT)

Controls a failsafe spring-return smoke fire damper actuator that incorporates two auxiliary switches.

Fire Damper Interface (FDI-M/FT)

Monitors the open and/or closed fire damper position.

Smoke Damper Interface (SDI-M/FT)

Controls any drive-open/drive-closed smoke damper actuator that incorporates two auxiliary switches.

NOTE:

- Each interface is available in 24 V or 230 V supply. Please specify a voltage at the time of order.

Modulating Damper Interface (3P-SFDI-M/FT)

The Actionair by Swegon Modulating Damper Interface provides a communication device to control a single modulating actuator that incorporates two auxiliary switches.

Auto Mode

Damper can be set from the control system to a balanced position, or to drive-open or closed (damper configuration mechanically set), or failsafe via spring-return.

Learn Mode

Damper can be set to its required balanced position via the set point potentiometer.

Local Mode

Damper can be modulated via a 2–10 V signal from the Building Management System (BMS). In the event of a fire alarm or firefighter's override input, the damper control system will take control away from the BMS and react according to the input(s).

NOTE:

- Local mode does not apply to drive-open/drive-closed (DODC) actuators.
- The interface is available in 24 V or 230 V supply (both driving a 24 V actuator). Please specify a voltage at the time of order.

Functions

Function	Description	Two-Position DI	Modulating DI
Open	Damper blade is open.	✓	✓
Closed	Damper blade is closed.	✓	✓
Balanced	Damper blade is in a predefined position, between fully open (90°) and fully closed (0°).		✓
Travelling	Damper blade is travelling.	✓	✓
Fault	Damper or damper interface is in fault.	✓	✓
Ping	Ping sent (See <i>Terminology</i> , p4).	✓	✓
Offline	Damper or damper interface is offline.	✓	✓
Save mode	If an actuator position cannot be reached, actuator save mode will halt attempts for the actuator to reach its final position after 10, 20 or 30 attempts. This can be set in the Safeguard Builder.	✓	✓
Wink	Wink sent (See <i>Terminology</i> , p4).	✓	✓
Learn mode	Set up the balanced position for the damper.		✓

Technical Information

Modbus (M)

	Two-Position Damper Interface	Modulating Damper Interface
Chip	Arm Cortex-M4	
Service Functions	Service pin and service LED	

Lonworks (FT)

	Two-Position Damper Interface	Modulating Damper Interface
Chip	FT6050	
Service Functions	Service pin and service LED	

Supply*

	Two-Position Damper Interface	Modulating Damper Interface
Input Voltages	(230 ± 23) V AC, 50 Hz (24 ± 4.8) V AC, 50 Hz (24 +4.8 /24 -2.4) V DC	
Maximum Power Consumption	2.5 VA 24V AC/DC 4.5VA 230V AC	1.3 W

*Please specify at the time of order.

Output

	Two-Position Damper Interface	Modulating Damper Interface
Contact Type	DPCO mechanical relay contacts	SPST mechanical relay contact
Maximum Switched Load	200 VA	50 VA

Inputs

	Two-Position Damper Interface	Modulating Damper Interface
Contact Type	Non-isolated dry contacts	
Sense Current	10 mA	10 mA per input

Enclosure

	Two-Position Damper Interface	Modulating Damper Interface
Material	ABS base with polycarbonate lid	
Ingress Protection (IP) Rating	IP 54	
Insulation	Double	
Flammability	UL 94 V-0	
Pollution Degree Rating	Category 2	
Dimensions, mm (L x W x D), excl. glands	213 x 170 x 95	

Environmental

	Two-Position Damper Interface	Modulating Damper Interface
Operating Temperature	-10–75°C	
Storage Temperature	-20–70°C	
Humidity	25%–90% RH at 70°C	
Maximum Altitude	2000 m	

Compliance

	Two-Position Damper Interface	Modulating Damper Interface
Agency Listing	CE	
Electromagnetic Compatibility (EMC)	EN60730-1:00+A1:04+A2:08+A16:07; CISPR 22 / FCC part 15, cl. B	EN60730-1:00+A1:04+A2:08+A16:07
Low Voltage Directive (LVD)	EN60730-1:2005 + ...+ A2:2008	



Electrostatic Sensitive Device



LonMark Certified



Double Insulated



Indoor Use Only

Disclaimers

- The information herein is subject to change without notice. Actionair by Swegon do not assume any liability arising out of the use of this product.
- Purchase of goods and services is subject to Swegon Terms and Conditions.
- If not agreed otherwise, all wiring is by others.

Warnings

- This product forms part of a life-safety system. Failure to correctly store, handle, install, and maintain the product will directly put at risk the lives of the occupants and the fabric of the building.
- The responsible body shall be made aware that, if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Unauthorised modifications to Actionair by Swegon panels and devices are not allowed, and will render the warranty void.

Related Documentation

- Smoke Fire Damper Interface (SFDI) Installation and Maintenance.
- LNS5 Damper Control Panel Product Sheet.
- LNS5 Product Sheet.

Safety Notes

- Only allow trained and qualified personnel to install, replace, or service this equipment.
- Adhere to the relevant local safety standards.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Terminology used in this document

Ping - a command to test the connectivity and responsiveness of a networked device.

Wink - a command to identify a networked device.