

DUAL-FLAP ISOLATION (DFI™) VALVE INTERFACE MODULE



The DFI Interface Module is an accessory that is compatible with Fike's Dual-Flap Isolation Valve and ValvEx. The module provides a localized visual indication of the valve status. It provides an interface between the valve and the facility's programmable logic controller (PLC) for valve monitoring and process shutdown upon valve closure or dust layer detected.

An optional Air Pulse Timer Circuit can be added to the Interface Module to supply power to and control the valve's optional Air-Pulse Cleaning Valve (APCV) operation. The Interface Module can be ordered with the Air-Pulse Timer Circuit components factory-installed, or the Air-Pulse Timer Circuit components can be field installed – refer to data sheet X.1.107.01

Depending upon the Interface Module ordering format, the module may be equipped with the following LEDs to provide a visual indication of the status of the isolation valve and optional components:

- **System Normal** (standard) – Green LED indicates normal operation of the valve
- **Lock Activated** (standard) – Red LED indicates valve closure or valve flaps not fully closed (compromised)
- **Air-Pulse Cleaning Activated** (optional) – Blue LED indicates the air pulse cleaning valve's operational status. LED flashes in sync with the operation air-pulse timing circuit ⁽¹⁾
- **Dust Accumulation** (optional) – Yellow LED indicates the activation of the dust accumulation sensor. Valve maintenance is required ⁽¹⁾

(1) The module must be ordered with LED if the Air-Pulse Cleaning Valve and Dust Accumulation Sensor is installed on the isolation valve.

ORDERING

PART NUMBER	DESCRIPTION
E10 – 080 – A – B – C – D	
A (AC POWER)	1 = 120; 2 = 240
B (DUST ACCUMULATION LED)	0 = omit; 1 = factory installed
C (AIR PULSE OPTION)	0 = omit; 1 = factory installed
D (ENCLOSURE)	1 = carbon steel; 2 = stainless steel

Example: E10-080-1-0-1-2 = Interface Module with 120 VAC power supply and air pulse kit factory installed in a stainless steel enclosure.

SPECIFICATIONS

GENERAL	
OPERATING TEMPERATURE	-20°C to 55°C (-4°F to 131°F)
PERMISSIBLE HUMIDITY (OPERATING)	10% to 93% (non-condensing)
NET WEIGHT	6 kg (13.35 lbs) without APCV components 6.7 kg (14.75 lbs) with APCV components
POWER INPUT	120 / 240 VAC, 50 / 60 Hz
CIRCUIT BREAKER	3 A
ENCLOSURE	
MATERIAL	Carbon steel or stainless steel
FINISH (Carbon steel only)	Epoxy-polyester powder (gray RAL 7035)
DIMENSIONS (H x W x D)	300 x 300 x 150 mm (11.81 x 11.81 x 5.9 in)
MOUNTING	Wall-mounted
STANDARDS	IEC 62208
CERTIFICATIONS	CUL, UL, BV, LR, GL, DNV
IP DEGREE OF PROTECTION	IP66 conforming to IEC 60529
IK DEGREE OF PROTECTION	IK10 conforming to IEC 62262
INTRINSIC SAFETY BARRIER	
NO OF CHANNELS	2, 1 PDT per channel
NOISE IMMUNITY	EN 61000-6-2
DEGREE OF PROTECTION	IP 20
SUPPLY VOLTAGE RANGE	24 to 230 VAC/VDC (-20 to 10%, 50 to 60 Hz)
MAX CURRENT CONSUMPTION	< 80 mA
CONNECTION METHOD	Screw connection
STRIPPING LENGTH	7 mm (0.28 in)
CONDUCTOR CROSS SECTION	0.2 mm ² ... 2.5 mm ³ (stranded or solid)
CONDUCTOR CROSS-SECTION AWG	24 ... 14
TORQUE	0.5 Nm ... 0 Nm

INSTALLATION

Mounting holes are provided in the interface module enclosure back-box to facilitate surface mounting of the module. The installer must provide mounting hardware.