

COEX™ FEWS Hazardous-Area Wash System

FEWS3-ALA

The COEX™ FEWS3-ALA wash system is developed specifically for hazardous area applications. The wash system allows remote pressure jet washing of the camera station window and low fluid level monitoring, maintaining optimum viewing conditions in the harshest of environments.



Manufactured from the highest-grade electro-polished 316L stainless steel for maximum corrosion resistance, the COEX™ FEWS3-ALA wash system is designed for optimal performance and long service life in the harshest of environmental conditions.

For operation in potentially explosive atmospheres, the FEWS3-ALA is the perfect choice to maintain optimum image clarity and performance for C3000 hazardous-area camera stations.

Comprised of a 10 liter pressurised reservoir and electronically operated solenoid valve, the unit can be installed up to 20 meters below the camera head, allowing servicing and remote operation of the reservoir at ground / deck level.

When installed alongside C3000 hazardous-area camera stations, the water jet is ejected from a spray

nozzle mounted on the window wiper arm to ensure uniform window cleaning.

For convenience, the unit also contains a ATEX/IECEX pressure sensor providing a low pressure/fluid level warning output that can be used to signal to a controlling VMS when the wash unit requires recharging/refilling.

Various ATEX/IECEX solenoid valve options are available to match the desired power requirements, extending the flexibility for the wash unit to be used with 3rd party camera stations.

Features

- Electro-polished 316L stainless steel enclosure for optimum corrosion resistance

- 10 liter removable stainless steel reservoir can provide up to 500 wash cycles between refills
- Enclosed system ensures high performance in all climates
- Suitable for antifreeze and detergent additives*1
- Designed for maintenance access at ground / deck level
- Low pressure/fluid level warning output
- Integral ATEX/IECEX junction box allowing for single cable installation

Options

- Wide range of operating voltages
- 10 meter wash hose extension kit

Specifications

CERTIFICATIONS / RATINGS	
ATEX / IECEx	II 2 GD, Ex db IIB / IIC T3 Gb; Ex tb IIIC T200 Db
EMC	EN61000-6-4, EN61000-6-2
DNV	TAA00001M2

ENVIRONMENTAL		[OPTIONS]
Operating Temperature ^{*2}	[Refer to valve options table]	
Ingress Protection	IP66/67 (solenoid valve), IP56 (main enclosure), IP66/67 ^{*3} (junction box), IP67/NEMA 4x (switch)	
Salt Mist	IEC60068-2-52, IEC60945 section 8.12	
Vibration	0.7g to IEC60068-2-6, IEC60945	
Wind Loading	Operational to 130 km/h, survival to 200 km/h	

MECHANICAL		[OPTIONS]
Enclosure Material	Electro-polished 316L stainless steel	
Enclosure Paint	Available on request	
Mounting	3 or 4 x Ø 8 mm (Ø 0.31") holes	
Reservoir Type	Stainless steel, manually pressurized	
Reservoir Capacity	10 liters (2.2 gallons)	
Working Pressure	6 bar maximum	
Valve Material ^{*2}	[Epoxy coated aluminum or 316 stainless steel]	
Valve Seal Material	NBR	
Fluid Outlet	1/4" bore, 10 m hose	
Flow Rate	> 0.5 liters per minute	
Dimensions (W x D x H)	346 x 251 x 650 mm (13.62" x 9.88" x 25.59")	
Weight Empty	18.7 kg / 41.3 lbs [21.7 kg / 47.9 lbs with stainless steel valve]	
Weight Full	28.7 kg / 63.3 lbs [31.7 kg / 69.9 lbs with stainless steel valve]	

LOW LEVEL SWITCH		[OPTIONS]
Material	316L stainless steel	
Rating	SPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed)	
Diaphragm	316 stainless steel < 200psi	
Set Point	Factory set to 1.5 bar ± 10%, adjustable set point (decreasing)	

ELECTRICAL		[OPTIONS]
Power Requirements ^{*2}	[Refer to valve options table]	
Power Consumption	10.5 W (AC), 11.2 W (DC) maximum	
Electrical Connections	5 x screw terminals for 0.75 -1.5 mm ²	
Cable Gland Entry	1 x 1/2" NPT	

NOTE: *1 Ensure compatibility with valve sealing material. *2 Refer to valve options table for exact specification. *3 Dependent on certification and equipment fitted.

Model Code Ordering Information: FEWS3-ALA-[Valve Code][Temperature Code]-[Material Code]

VALVE OPTIONS				
Voltage (V)	Frequency (Hz)	Valve Code	Temperature Code	Material Code
24	DC	024D	8, 9	
24	50	0245	8, 9, A	
24	60	0246	8, 9	
115	50	1155	8, 9, A	
115	60	1156	A	
230	50	2305	8, 9	
230	60	2306	8, 9	
24	DC	024D	8, 9	S
24	50	0245	8, 9	S
24	60	0246	8, 9	S

Temperature Code	Operating Temperature
8	-20°C to +70°C
9	-20°C to +65°C
A	-20°C to +60°C

Material Code	Material
	Epoxy coated aluminium
S	Stainless steel