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 value, 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

OEX

- 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

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



Specifications

Electrical Connections

ATEX/IECEx II 2 GD, Ex db IIB / IICT3 Gb; Ex tb IIICT200 Db EMC EN61000-64, EN61000-62 DNV TAA00001 M2 EMC(INCINMENTAL [ornoxe] Operating Temperature ¹² [Refer to value options table] Ingrass Protection IP66/67 (solenoid value), IP56 (main enclosure), IP66/67* (junction box), IP67/NEMA 4x (switch) Salt Mist IEC000682-25, IEC00045 section 8.12 Vibration 0.7g to IEC600682-25, IEC0045 Wind Leading Operational to 130 km/h, survival to 200 km/h MECHANICAL [ornoxe] Enclosure Material Electro-polished 316L stainless steel Reservoir Type Stainless steel Mark Reservoir Type Stainless steel Mark Value Material Elector-polished 316L stainless steel Mark Value Material Elector Stainless steel Mark Value Material Elector Stainless steel Mark Value Material IIII Stainless steel Mark	CERTIFICATIONS / RATINGS				
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ENVIRONMENTAL (Cennols) Operating Temperature" [Refer to valve options table] Ingress Protection IP66/67 (solenoid valve), IP66 (main enclosure), IP66/67 ^{1/4} (junction box), IP67/NEMA 4x (switch) Sait 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 Enclosure Material Electro-polished 316L stainless steel Enclosure Paint Available on request Mounting 3 or 4 × 08 mm (00 031") holes Reservoir Type Stainless steel, manually pressurized Reservoir Capacity 10 liters (2.2 gallons) Vorking Pressure 6 Bar maximum Valve Material*2 [Epoxy coated aluminum or 316 stainless steel] Valve Material*2 10 liters (2.2 gallons) Vorking Pressure 6 Bar maximum Valve Material*2 [Epoxy coated aluminum or 316 stainless steel] Valve Material*2 [Epoxy coated aluminum or 316 stainless steel] Valve Material*2 [Epoxy coated aluminum or 316 stainless steel] Valve Material*2 [Epoxy coated aluminum or 316 stainless steel] Valve Material*2 <td>EMC</td> <td colspan="3">EN61000-6-4, EN61000-6-2</td>	EMC	EN61000-6-4, EN61000-6-2			
Operating Temperature*2 [Refer to valve options table] Ingress Protection IP66/67 (solenoid valve), IP66 (main enclosure), IP66/67*3 (junction box), IP67/NEMA 4x (switch) Salt Mist IEC60068-2-52, IEC60945 section 8.12 Vibration 0.7g to IEC60068-2-63, IEC60945 Wind Loading Operational to 130 km/h, survival to 200 km/h MECHANICAL [ornows] Enclosure Material Electro-polished 316L stainless steel Enclosure Paint Available on request Mounting 3 or 4 x 0 8 mm (0 0.31*) holes Reservoir Type Stainless steel, manually pressurized Reservoir Type Stainless steel, manually pressurized Valve Sael Material [Drov coated aluminum or 316 stainless steel] Valve Sael Material NBR Fluid Ourlet 1/4" bore, 10 m hose Flow Rate > 0.5 liters per minute Dimensions (W x D x H) 346 x 251 x 660 mm (13.62" x 9.88" x 25.59") Weight Empty 18.7 kg / 41.3 lbs [21.7 kg / 42.9 lbs with stainless steel valve] Weight Full 28.7 kg / 63.9 lbs with stainless steel valve] LOW LEVEL SWITCH [ornos] Material 316L stainless steel Rating SPDT 3A @ 125	DNV	TAA00001 M2			
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Wind Leading Operational to 130 km/h, survival to 200 km/h MECHANICAL [opmons] Enclosure Material Electro-polished 316L stainless steel Enclosure Paint Available on request Mounting 3 or 4 × 08 mm (0 0.31 ") holes Reservoir Type Stainless steel, manually pressurized Reservoir Capacity 10 liters (2.2 gallons) Working Pressure 6 bar maximum Valve Material" [Epoxy coated aluminum or 316 stainless steel] Valve Material" [Epoxy coated aluminum or 316 stainless steel] Valve Sael 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 9.89" x 25.59") Weight Funpty 18.7 kg / 41.3 lbs [21.7 kg / 479 lbs with stainless steel valve] Weight Full 28.7 kg / 63.3 lbs [31.7 kg / 69.9 lbs with stainless steel valve] Material 316L stainless steel Rating SPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed) Diaphragm 316 stainless steel Point Factory set to 1.5 bar ± 10%, adjustable set point (decreasing) ELECTRICAL [opmons] Power Requirements" [Refer to valve options table]	Salt Mist	IEC60068-2-52, IEC60945 section 8.12			
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Flow Rate > 0.5 liters per minute Dimensions (W × D × H) 346 × 251 × 650 mm (13.62" × 9.88" × 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] Kow LEVEL SWITCH [ornows] Material 316L stainless steel Rating SPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed) Diaphragm 316 stainless steel < 200psi	Valve Seal Material	NBR			
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LOW LEVEL SWITCH [отполя] 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 [отполя] Power Requirements" ² [Refer to valve options table]	Weight Empty	18.7 kg / 41.3 lbs [21.7 kg / 47.9 lbs with stainless steel valve]			
Material316L stainless steelRatingSPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed)Diaphragm316 stainless steel < 200psi	Weight Full	28.7 kg / 63.3 lbs [31.7 kg / 69.9 lbs with stainless steel valve]			
Rating SPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed) Diaphragm 316 stainless steel < 200psi	LOW LEVEL SWITCH		[OPTIONS]		
Diaphragm 316 stainless steel < 200psi	Material	316L stainless steel			
Set Point Factory set to 1.5 bar ± 10%, adjustable set point (decreasing) ELECTRICAL [ОРТЮNS] Power Requirements*2 [Refer to valve options table]	Rating	SPDT 3A @ 125 Vac, 2A @ 30 Vdc (normally open / closed)			
ELECTRICAL [ортюлs] Power Requirements ^{*2} [Refer to valve options table]	Diaphragm				
Power Requirements ^{*2} [Refer to valve options table]	Set Point	Factory set to 1.5 bar \pm 10%, adjustable set point (decreasing)			
Power Requirements ^{*2} [Refer to valve options table]	ELECTRICAL		[OPTIONS]		
		[Refer to valve options table]			
	Power Consumption		10.1 W (AC), 11.5 W (DC) maximum		

 Cable Gland Entry
 1 x ½" 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.

 $5\,x$ screw terminals for 0.75-1.5 mm^2

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	Material Code	Material
8	-20°C to +70°C		Epoxy coated aluminium
9	-20°C to +65°C	S	Stainless steel
А	-20°C to +60°C		

CAMERA STATIONS

Reference Number: 06\DS 0593 lss 2

Synectics sales@synecticsglobal.com synecticsglobal.com

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