



Series ES-800 Low Profile Position Monitor

Mounting and Installation Instructions: MICRO-SWITCH Model

A. Mounting Kits

The basic 800 model is designed to suite a shaft height of **20mm** and an interface of **30 x 80mm** (standard VDI/VDE 3845) and is designated option 1. This option contains a mounting kit comprising 4 – M5 x 10 socket cap screws, a drive coupling, an M6 x 16 socket cap screw and a square drive insert.

The 800 model to suite a shaft height of **30mm** and an interface of **30 x 80mm** is designated option 2. The mounting kit for this option comprises 4 – M5 x 20 socket cap screws, 2 – 10mm moulded spacers, a drive coupling, an M6 x 16 socket cap screw and a square drive insert.

The 800 model to suit a shaft height of 30mm and an interface of **30 x 130 mm** is designate option 3. The mounting kit for this option comprises 8 – M5 x 10 socket cap screws and 2 – moulded adapter plates with threaded inserts.

B. Installation There is no need to over tighten

Option 1. Locate the moulded drive coupling to the top of the actuator shaft ensuring the blade engages with the slot. Use the M6 x 16 cap screw to tighten. Insert the square moulded drive into the recess and fit the shaft indicator over the external hexagon of the drive coupling ensuring the correct visual orientation. Offer the Switchbox, with the mounting bracket already fitted, over the coupling such that the square end of the drive shaft engages with the inserted drive. Using the 4 – M5 x 10 cap screws tighten the assembly to the top of the actuator.

Option 2. Locate the drive coupling as above then place the 10mm adapter plates in position before offering the Switchbox over the drive coupling. Using the 4 – M5 x 20 cap screws provided tighten up as before. The screws will feed through the adapter plate and tighten the assembly as normal.

Option 3. Using 4- M5 x 10 cap screws fit the 2 – adapter plates to the actuator top ensuring that the M5 threaded inserts effectively present a mounting pitch of 30 x 80mm then proceed as Option 1.

C. Electrical Installation Only approved and qualified personnel should undertake this function

Remove the 2 – conduit entry dust plugs and the M4 x 6 security screw retaining the cover in position. Remove the cover and the HI-VIZ indicating frame. Gland the incoming cable(s) as appropriate using best practice. Ensure any unused entry is correctly sealed to preserve the integrity of the enclosure. Terminate the control wires at the 6-way terminal connector in accordance with the wiring diagram located on the underside of the cover. After adjusting the switches as detailed in 'D' replace the indicator frame ensuring correct orientation, refit the cover with the seal in place and replace the security screw.

D. Adjusting the Switches (to set the operating point)

Adjustment of the Open position

After arranging that the Actuator/Valve assembly is in the closed position slide the bottom cam upwards to disengage from the drive splines and rotate until the microswitch is operated. Release the cam such that it engages with the drive splines under spring action.

Adjustment of the Open position

After arranging that the Actuator/Valve assembly is in the open position repeat the above by sliding the top cam downwards.

E. Technical Specification

General Information

Mounting Compatibility	Shaft Height:	20mm, 30mm
	Interface	30 x 80mm 30 x 130mm
Material	30% GF Polyamide	
Rating	IP67, VDE 0470/EN 60529	
Temperature Range	-20°C to +70°C	
Angle of Operation	0 - 90° rotation	
Electrical Connection	6 – way terminal	
	Max current: 16A	
Conduit entry	M20, ½" NPT or PG13.5	
Max. conductor size	2.5mm	

Micro-switches

1. Contacts plated Nickel Silver (AgNi)

Voltage range:	5V/DC – 250V/AC
Current Range:	100mA – 16A

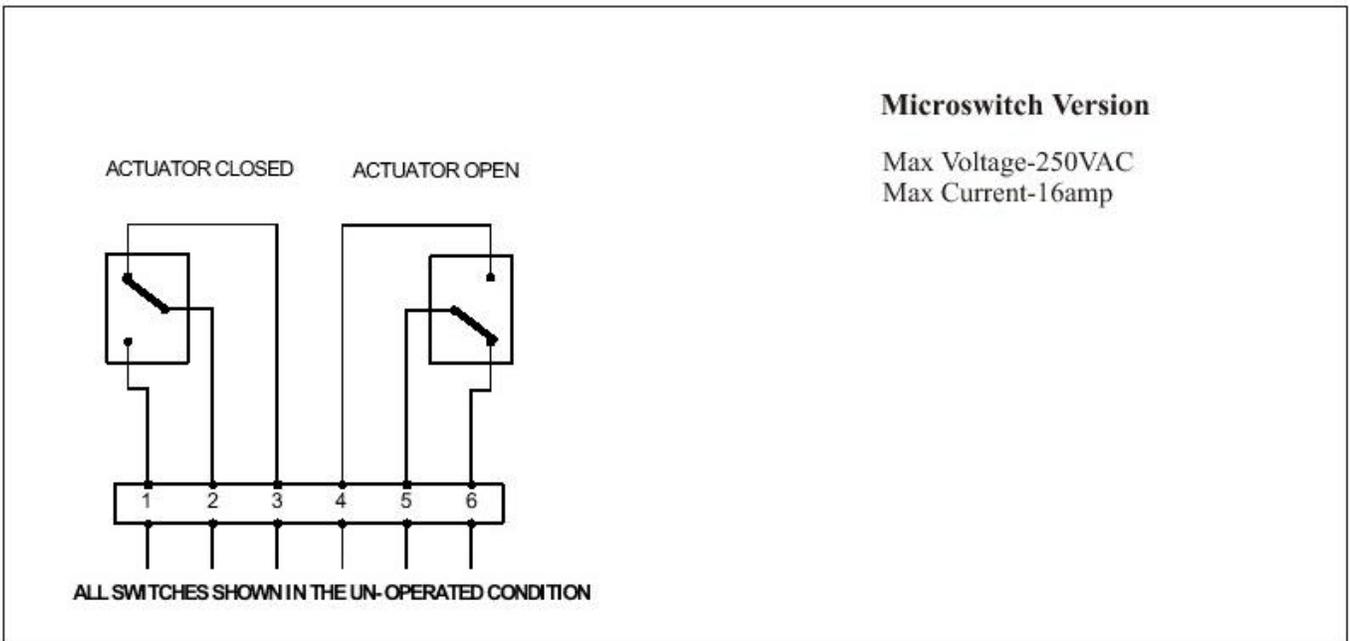
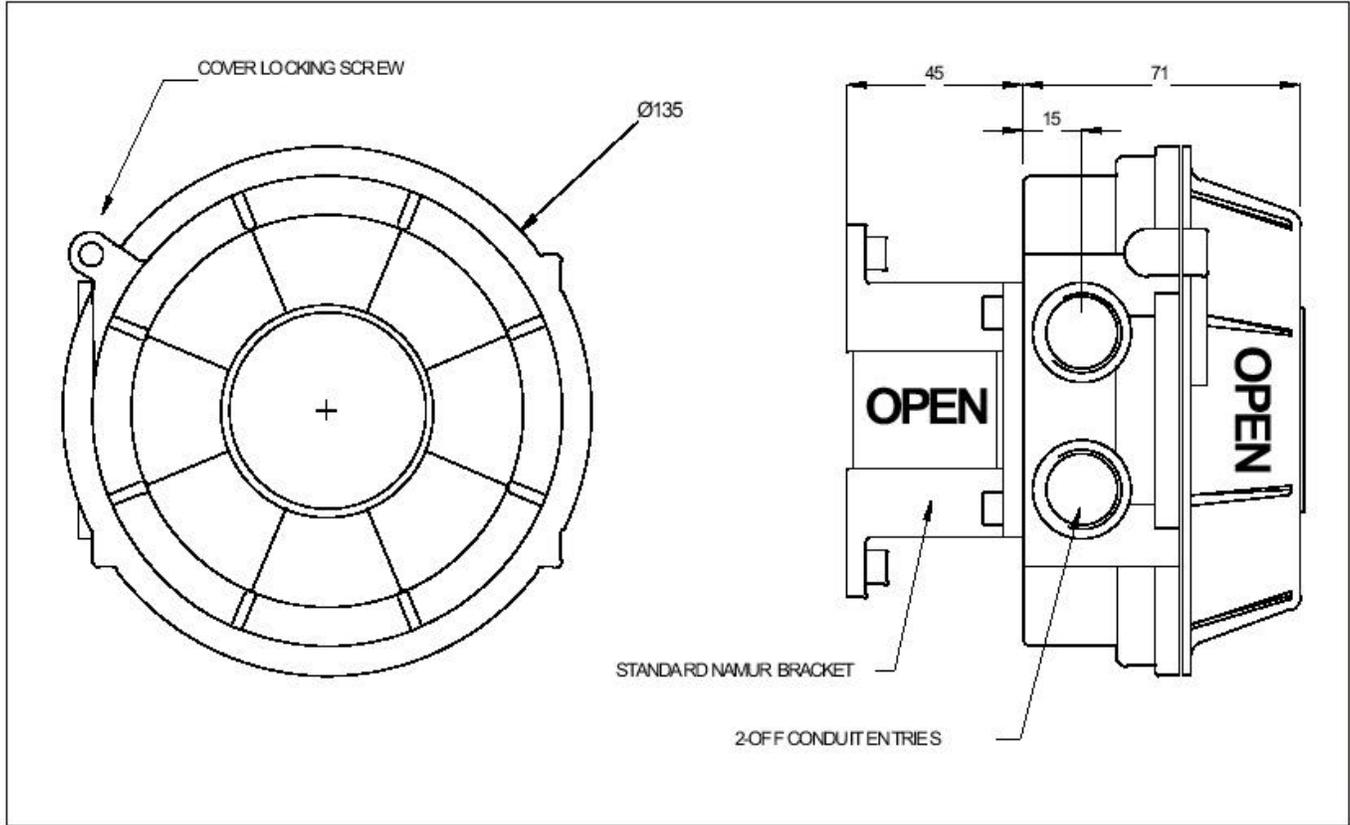
2. Contacts plated gold

Voltage Range:	5V/DC – 250V/AC
Current Range:	1mA – 200mA

Switch function:	Changeover (SPDT)
Approvals:	SEMKO-NEMKO DEMKO-FEMKO IMQ-BS-UL-CSA KEMA-UTE-VDE



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