

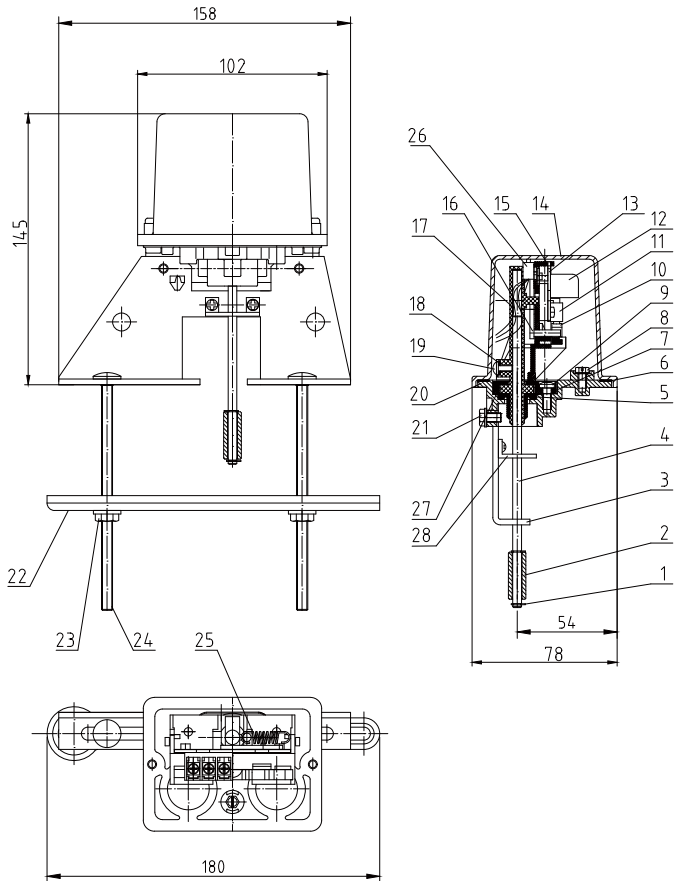


Technical Features

- Ingress Protection: IP67 (Use suitably rated conduit and connector)
- Working Temperature Range: -40°C~ 60°C/ -40°F ~ 140°F
 - OSYSS-1 have 1 microswitch and 0 cover tamper microswitch
 - OSYSS-2 have 2 microswitch and 0 cover tamper microswitch
 - OSYSS-3 have 2 microswitch and 1 cover tamper microswitch
 - Contacting Ratings: i.Switch parameters
8A 125/250VAC
2A 30VDC / 2.5A 24VDC
ii.Cover Tamper Switch parameters
5A 125/250VAC
2A 30VDC / 2.5A 24VDC
 - Service Use: NFPA-13, 13D, 13R, 72
 - For indoor or outdoor use
 - Approval: FM

Valve Material List

No.	NAME	QTY	MATERIAL
1	C Washer	2	S.S.304
2	Roller	1	S.S.304
3	Bracket	1	Steel
4	Trip Rod	1	S.S.304
5	Sealing Sleeve	1	EPDM
6	Washer	1	EPDM
7	Support Block	1	PC
8	Bolt	1	Steel
9	Bolt	3	Steel
10	Actuator Button	1	PC
11	Microswitch	1 or 2	
12	Binding Post	1 or 2	
13	Circuit Board	1	FR-4
14	Cover	1	AG-40A
15	Mounting Bracket	1	PC
16	Switch Actuator	1	PC
17	Sleeve	1	PC
18	O-Ring	1	EPDM
19	Bolt	1	Steel
20	Base	1	A03600
21	Bolt	1	Steel
22	Clamp Bar	1	SS304
23	Nut	2	Steel
24	Bolt	2	Steel
25	Spring	2	S.S.304
26	Cover tamper microswitch	0 or 1	
27	Flat gasket	1	S.S.304
28	Limiting stopper	1	S.S.304



Product Description

The OSYSS is used to monitor the open position of an OS&Y(outside screw and yoke) type gate valve. These switches mount conveniently to most OS&Y valves ranging in size from 2” to 12” (50mm to 300mm). They will mount on some valves as small as ½” (12.5mm). The cover is held in place by two tamper resistant screws that require a special tool to remove. The tool is furnished with each device.

Theory of Operation

The OSYSS is a 3 position switch. The center position is the normal installation position. Normal is when the switch is installed on the OS&Y valve, the valve is fully open and the trip rod of the OSYSS is in the groove of the valve stem. Closing the valve causes the trip rod to ride up out of the groove and activates the switches. Removing the OSYSS from the valve causes the spring to pull the trip rod in the other direction and activates the switches.

Testing

The operation of the OSYSS and its associated protective monitoring system shall be inspected, tested, and maintained in accordance with all applicable local and national codes and standards and/or the Authority Having Jurisdiction (manufacturer recommends quarterly or more frequently). A minimum test shall consist of turning the valve wheel towards the closed position. The OSYSS shall operate within the first two revolutions of the wheel. Fully close the valve and ensure that the OSYSS does not restore. Fully open the valve and ensure that the OSYSS restores to normal only when the valve is fully opened.

CAUTION : Close the valve fully to determine that the stem threads do not activate the switch. The switch being activated by the stem threads could result in a false valve open indication.