





## **Switchmaster®**

The opto-electric position indicator

# Opto-electric position indicator for actuators/ valves with many advantages

It's got a lot to offer!

The patented Switchmaster®

A lot of power and a lot of safety
e.g. approx. 50% savings in time
and cost for installing and using
compared to previous units.

- Rapid comfortable connecting of the cable
- Switchmaster® opens and closes in seconds
- Easy, rapid mounting of the telescopic feet
- Easy and rapid adjustment of the switching points
- Indication of the valve position recognizable from as far away as 30 m
- · Clear description of flow path . . .
- · . . . also for 3-way or 4-way valves
- Constructional dimensioning prevents wrong mounting
- Protection type IP 67 (water-tight)
- · No brackets needed
- Can be used with all VDI/VDE 3845 classified actuators
- High corrosion resistance and much more – but have a look yourself . . .



## Your benefits

#### Clips with double use

Benefit 1: Is the foot set to the correct height, all you do is to press the clip and the height is safely fixed!

Benefit 2: Would you like to have your company logo on the clips?

Left and right?

Everything is possible!







### Indication of the valve-position



## Position easily recognized from long distances

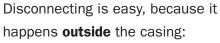
The display can be easily seen from far and from all sides and clearly indicates the switching position:

red = closed green = open

The green marking indicates the flow path.







- · Remove mounting plate
- Thread the cable through the cable gland and connect acc. to the wiring diagramm
- Clip the plate into position, tighten the fixing screw-finished!

## One foot for all standard dimensions

The foot is always the same: whether left or right, inside or outside.

Simply rotate the feet by 180° and the Switchmaster® is ready for NAMUR dimensions of 80 or of 130 mm.



## The new generation of position indicator

#### Quick-acting closure

The transparent cap with bayonet socket enables rapid and easy opening/closing for connecting and adjusting.

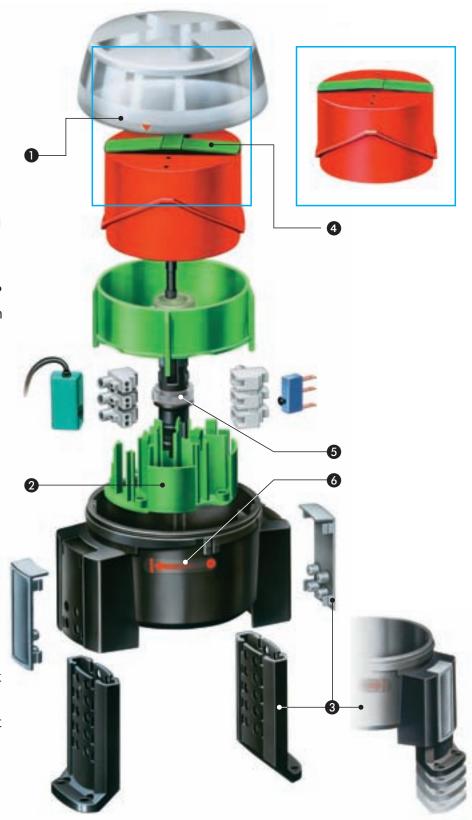
#### **2** Electromechanical or inductive?

The mounting plate is equipped with either micro-switches or inductive switches – i.e. direct switching or according to NAMUR.



#### **3** Vertically adjustable feet

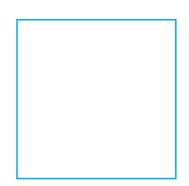
Depending on the pinion overlap (20, 30, 40, or 50 mm), the Switchmaster® can be universally mounted in seconds. Simply mount the feet (without casing) onto the valve, slide the casing over the feet brackets until the shaft matches the actuator pinion. Then press the clips and the position is fixed. Brackets are not needed!

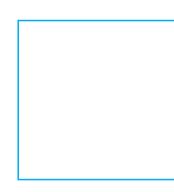












#### 4 Rapid marking

The flow path of the valve can be easily indicated in seconds by pressing on the green path indicator, not only through valves but multiple valves.



#### **6** Cap markings

Rotate the cap in the closed position and the Switchmaster® is closed water-tight.

The quick-acting closure enables connecting, adjusting and programming within seconds.

#### **6** Universal switching cams

The patented switching cams activate the electromechanical or inductive switches. Inductive switches can be switched in either damped or undamped situations, depending on the adjustment. The switching point is quickly and easily changed by rotating the integrated adjusting tool.

The positive form-fitting connection between cam and shaft guarantees the stability of the switching point.

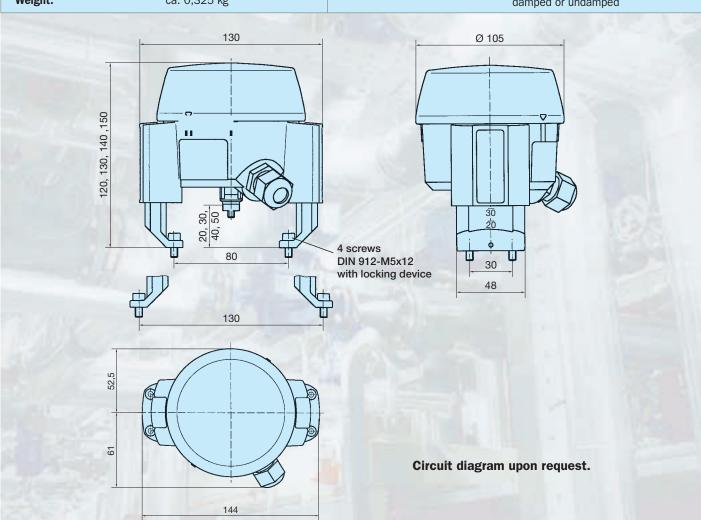


When using multiple valves (L or T models), the green marking indicates the flow path. The closed routes are indicated by red markings.





General Data		<b>Switch</b> master®-Varianten	
Mounting measurements:	acc. to VDI/VDE 3845 for flange facing 30 x 80 and 30 x 130 (see drawing)	Typ M, microswitch  Voltage range  Current range	type SM - M2 (signal "open + closed") 4V/DC - 250V/AC 1mA - 5A
Materials: Cap: Stem: Seals: Cable gland/ Nut: Other plastic parts: Hexagon socket screw:	PC POM NBR  PA ABS Stainless steel (A2-70)	Type D, inductive sensor, direct switching, 3-wire system, with LED Voltage range Constant current Switching function	type SM - D2 (signal "open + closed") type SM - DA (signal "open") type SM - DA (signal "closed") 10V - 30V/DC 100 mA plus switching contact in end position
Protection:	IP67, VDE 0470/EN 60529		damped or undamped
Temperature range:	-20 °C up to +70 °C	Type N, inductive sensor, Namur  ≅ DIN 19234/EN 50227 + LED explosion-proofed, EExia IIB T6 rated voltage output current  Switching function	type SM - N2 (signal "open + closed") type SM - NA (signal "open") type SM - NZ (signal "closed") 8V/DC damped < 1mA undamped > 3mA in end position
Display & switching range:	0°- 90° pivoting angle		
Cable gland:	with strain relief Clamp range 7-13 mm		
Cable:	Ø 7-13 mm, max. 2,5 mm <sup>2</sup>		
Weight:	ca. 0,325 kg		damped or undamped



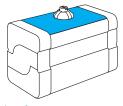


#### **Interfaces**

Actubar as center of the Vacotrol system possesses interfaces according to all standards.

Modular construction enables combinations with the following products from our extensive range as well a all other commercially available positioners, solenoid valves and valve fittings.





Interface actuator/signal unit acc. to VDI/VDE 3845



switchcontrol



miniswitch



switchmaster



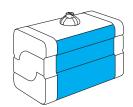
Interface actuator/signal unit bar-vacotrol



bar-positurn and bar-positurn 3P



posiswitch



Interface actuator/control valve to VDI/VDE 3845 Namur

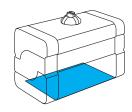


bar-Solenoid valve



Multibar (pressure booster) Throttle plate

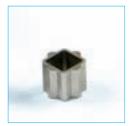




actuator/valve acc. to DIN EN ISO 5211



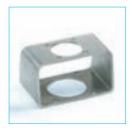
Manual override



Reductions



Adapters



Mounting brackets

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