

# bar

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

It's got a lot to offer! The new patented Switchmaster®.

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

- Rapid comfortable connecting of the cable
- Switchmaster<sup>®</sup> 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 DIN 5211 classified actuators
- High corrosion resistance and much more – but have a look yourself . . .



Use 1: is the foot set to the correct height, then all you do is press the clip and the height is safely fixed!
Use 2: would you like to have your company logo on the clips?
Left and right?
Everything is possible!



Disconnecting is easy, because it happens **outside** the casing:

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

#### Flow path display

The green marking clearly shows the open flow path.

Just press-on the marker as required.

### Position easily recognized from long distances

The display can be easily seen from afar and from all sides and clearly indicates the switching position: red = closed green = open
The green marking indicates the flow path.



## One foot for all standard dimensions

The foot is always the same: whether left or right, inside or outside. Simply rotate the foot 180° and the Switchmaster® is ready for NAMUR dimensiones of 80 or for 130 mm.

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## 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.

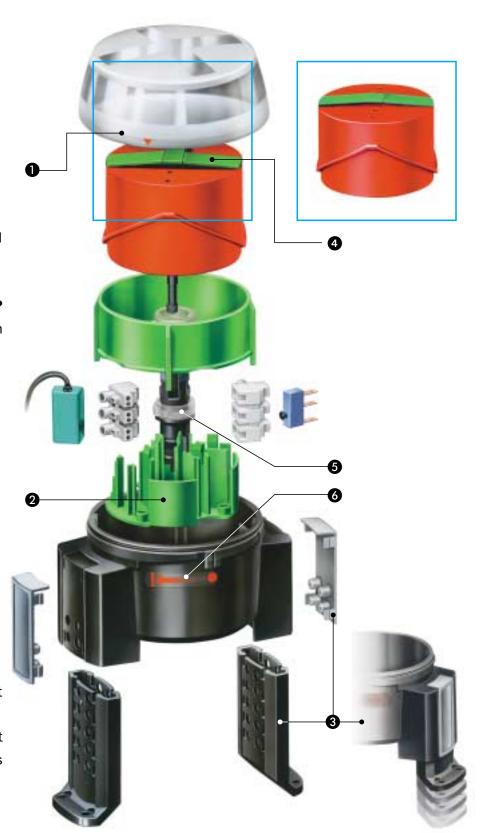
#### ② Electromechanical or inductive?

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



#### 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 pivot with cheeks covers the pinion. Then press the clips and the position is fixed. Brackets are not needed!





#### A 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.



#### **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 rocker guarantees the stability of the switching point.





closed



open

#### **6** Cap markings

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

The quick-acting closure lets you to open and close the cap, enabling connecting, adjusting and programming, all within seconds.

#### **Highly visible flow paths**

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® -versions	
Mounting measurements:  Materials:	acc. to VDI/VDE 3845 for flange facing 30 x 80 and 30 x 130 (see drawing)	Typ M, microswitch Voltage range Current range Switching function  Type D, inductive sensor, direct switching, 3-wire system, with LED Voltage range Constant current Switching function	type SM - M2 (signal "open + closed" 4V/DC - 250V/AC 1mA - 5A change-over, contacts gilded
Cap: Stem: Seals: Cable gland/ Nut: Other plastic parts: Hexagon socket screw:	Lexan 143 R Delrin (POM) Perbunan (NBR)  Polyamide (PA) Bayblend T45, ABS Stainless steel (A2-70)		type SM - D2 (signal "open + closed") type SM - DA (signal "open") type SM - DZ (signal "closed") 9V - 36V/DC 200 mA plus switching contact in end position damped or undamped
Protection:	IP67, VDE 0470/EN 60529		
Temperature range:	-20°C up to +70°C	Type N, inductive sensor, Namur  ≃ DIN 19234/EN 50227 + LED  explosion-proofed, EExia IIC 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 damped or undamped
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		

