

bar-**posiswitch**

A module of the valve-control system bar-vacotrol

Technical data sheet



Objective

The new opto-electric position indicator system bar-positswitch was specially developed for the actubar type of actuator.

It can be placed directly onto the actubar – without brackets or feet – and therefore forms a compact unit.

Alternatively the bar-positswitch can be mounted on all quarter-turn-actuators with NAMUR interface acc. to VDI/VDE 3845 so that the unique advantages are usable at these combinations also.

One of the special features: the system adjusts the end positions itself!

The adjustment which is often resulting in mistakes and waste of time is not necessary any more. The position indicator system is ready for use directly after mounting. bar-positum has all features for wiring the solenoid valves for use for monostabile as well for bistabile valves. The expensive laying of different cables per valve each is avoided as bar-positswitch offers all input and output signals and needs only one cable at all.



Technical data

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Materials	casing: screws: sight glass: cable glands: actuating shaft:	alu-diecast, resin-coated stainless steel A2 PC PA stainless steel
Pivoting angle	to 180°	
Protection type	IP 65	
Temperature range	-10 °C to +50 °C	
Weight	520 g	
Cable glands	up to 4 glands 1 x M20 (Standard), 3 x M16	
Cable	M 16 = ø 5 - 10 mm, up to 1,5 mm ² M 20 = ø 7 - 13 mm, up to 1,5 mm ²	
Display/switch range	0° up to 180° pivoting angle	
Micro-switch	voltage/cont. current: contacts: switch function:	type M2 DC up to 120 Volt/4A AC up to 250 Volt/16A Silver/Nickel-coated Change-over contacts
Inductive sensor	voltage range: continuous current: switch function:	type D2 , direct switching, 3-wire technology 10 V – 36 V/DC 200 mA PNP normally open

Special features

Description	Benefits
Up to 4 cable glands.	Simple, also subsequent wiring of solenoid valves in bar-positswitch is possible. Also for bistable versions with 2 coils.
Available in 2 different types of switch.	Multiple application possibilities and short delivery time via modular construction.
Adjusting switch points for both end positions.	Time and cost savings. Switching points are always correctly adjusted.
Protected and clearly visible position indicator, adjustable for 2-way- and 3-way-valves.	Path of flow is recognisable from long distances for both 2-way as well as 3-way valves.
Robust construction via Aluminium diecast-casing.	Unaffected by outside influences.
Flexible modular design.	Especially advantageous price/-performance ratio.
All components are made from either corrosion-resistant or corrosion-protected materials.	Can be adopted for many conditions.
Optionally with pressure-balance device to avoid emergence of condensation water at extrem climatic conditions	Extended life cycle of the electric components as well as higher corrosion resistance.
Direct assembly via vacotrol-interface of the quarterturn actuator actubar. Alternatively applicable for all interfaces according to VDI/VDE 3845.	Compactness and robustness due to direct mounting as well as flexible assembly to all common actuator-series



No adjusting of the end positions!

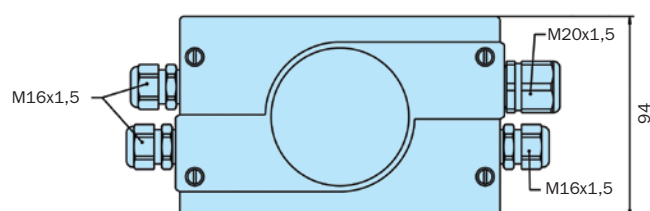
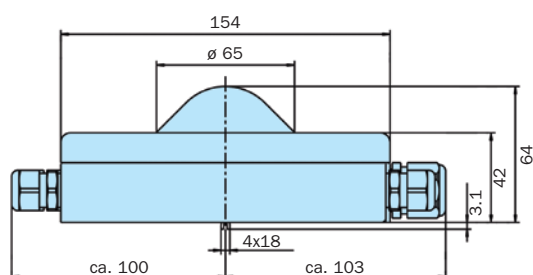


bar-positswitch is mounted directly on top of the actubar

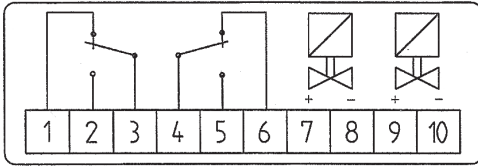


Paths of flow of the valve are clearly displayed with the red markings

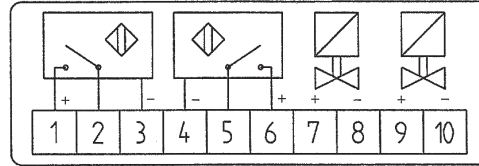
Dimensions



Switch diagrams



Micro-switch type M2



Inductive sensors type D2

Ordering code

PH-	XX-	X-	X-	XX-	XXX
	Version M2 = 2 mechanical change-over switches D2 = 2 proximity sensors, 3-wire, PNP normally open	Mounting brackets 0 = none 1 = mounting bracket 80 x 30 x 30 mm 2 = mounting bracket 130 x 30 x 30 mm 5 = universal mounting bracket 80 + 130 x 30 mm, shaft projection 9 – 50 mm	Hole pattern in box-bottom 0 = none (assembly via mounting bracket) 1 = borehole pattern for direct mounting 80 x 30 mm 2 = borehole pattern for direct mounting 130 x 30 mm	integrated solenoid-control S1 = integrated solenoid-control for 1 coil (monostabile control-valve) S2 = integrated solenoid-control for 2 coils (bistabile control-valve)	Pressure balance device DAE = pressure balance device avoiding internal condensation

Examples of use

PH-	M2-	1-	0-		
	2 change-over switches	assembly via mounting bracket 80 x 30 x 30 mm	no hole pattern in box-bottom (assembly via mounting bracket)		
PH-	D2-	0-	1-	S1	
	2 proximity sensors, 3-wire, PNP NO	no mounting bracket	hole pattern in box-bottom: 80 x 30 mm	integrated solenoid-control for 1 coil (monostabile)	
PH-	M2-	0-	2-	S2-	DAE
	2 change-over switches	no mounting bracket	hole pattern in box-bottom: 130 x 30 mm	integrated solenoid-control for 2 coils (bistabile)	Integrated pressure balance device avoiding internal condensation
PH-	D2-	2-	0-	DAE	
	2 proximity sensors, 3-wire, PNP NO	assembly via mounting bracket 130 x 30 x 30 mm	no hole pattern in box-bottom (assembly via mounting bracket)	Integrated pressure balance device avoiding internal condensation	



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