

Type A131

Horizontally-Mounted:
Trimod Besta ANSI Switches

3"-6"
ANSI Flange

Up to 572°F
Temperature

Stainless steel
Wetted Parts



ABOUT TYPES A131, A141, A151, A161 Trimod Besta ANSI Switches

The main feature of the industrial range is the wide choice of flange modules, manufactured according to International standards such as ANSI, DIN, BS and JIS. Available in different steel qualities, nominal sizes and pressure ratings. Typical applications are off-shore rigs, steam boilers, power stations, chemical and petrochemical engineering, heating and refrigeration, etc.

Application Examples:

- Chemical Engineering
- Off-Shore Rigs
- Steam Boilers
- Air-Conditioning
- Power Stations

For more information about our complete line of horizontally-mounted liquid level switches, visit our web site at:
<http://www.granzow.com/liquidlevelcontrols/horizontal/>

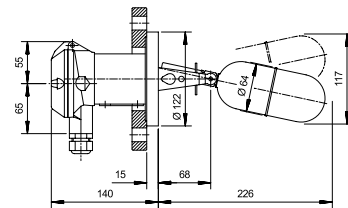
The Industrial Range offers numerous flange combinations

The main feature of the Industrial Range is the wide choice of flange modules, manufactured according to international standards such as DIN, ANSI, BS or JIS. Available in various steel qualities, nominal sizes and pressure ratings (e.g. up to PN 315 acc. to DIN or class 2500 acc. to ANSI). Shown here are only a few typical combinations, many more possibilities can be found in the module descriptions. All types in the Standard Range shown on the previous pages can of course also be combined with industrial flanges.

Frequently used on off-shore rigs, in steam boilers and plants, power stations, chemical and petrochemical engineering, heating and refrigeration, i.e. airconditioning technology.

Type A 22C 04 - For general purpose

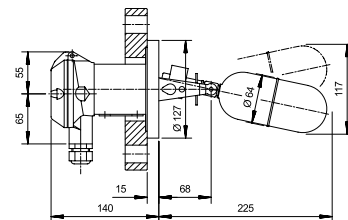
Nominal pressure	PN 40
Operating temperature	0 to 330°C
Ambient temperature	0 to 70°C
Density of liquid	min. 0.7 kg/dm ³
Operating differential	fixed 12 mm
Rod extension	see page 36
Wetside material	Stainless steel (CrNiMo)
Flange material	
Seal part	Stainless steel (CrNiMo)
Composite flange	H II, zinc galvanised, passivated
Switch housing material	Sea water resistant die cast aluminium
Flange	DN 65, PN 40 to DIN 2501
Flange facing	Raised face type C, DIN 2526
Switch element	Microswitch SPDT silver contacts
Switch rating	250 VAC, 5 A 30 VDC, 5 A
Enclosure	IP 65
Weight	approx. 5.4 kg



Type B 132R 07 - For intrinsically safe circuits and low density liquids

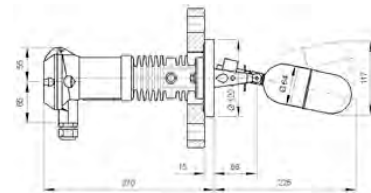
For certified intrinsically safe installations, approved for use in hazardous areas (see also page 43).

Nominal pressure	ANSI cl. 300 lbs
Operating temperature	0 to 330°C
Ambient temperature	0 to 70°C
Density of liquid	min. 0.5 kg/dm ³
Operating differential	fixed 12 mm
Wetside material	Stainless steel (CrNiMo)
Flange material	
Seal part	Stainless steel (CrNiMo)
Composite flange	H II, zinc galvanised, passivated
Switch housing material	Sea water resistant die cast aluminium
Flange	DN 3", PN cl.300 lbs ANSI B16.5
Flange facing	Raised face
Switch element	Microswitch SPDT with gold plated contacts
Enclosure	IP 65
Weight	approx. 8.6 kg



Type HA 24E 02 - For high temperature

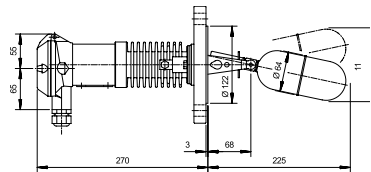
Nominal pressure	PN 100
Operating temperature	0 to 400°C
Ambient temperature	0 to 135°C
Density of liquid	min. 0.7 kg/dm ³
Operating differential	fixed 12 mm
Rod extension	see page 36
Wetside material	Stainless steel (CrNiMo)
Flange material	Seal part: Stainless steel (CrNiMo) Composite flange: H II, zinc galvanised, passivated
Switch housing material	aluminium
Flange	DN 65, PN 100 to DIN 2501
Flange facing	Raised face type E
Switch element	Microswitch SPDT silver contacts
Switch rating	250 VAC, 5 A 30 VDC, 5 A
Enclosure	IP 65
Weight	approx. 9.6 kg



Type 5TDI 22CF 041 - For low temperature and severe environmental conditions

Completely in stainless steel with fixed flange. For certified intrinsically safe installations, approved for use in hazardous areas (see also page 43).

Nominal pressure	PN 40
Operating temperature	-196°C to 270°C
Ambient temperature	-10°C to 80°C
Density of liquid	min. 0.7 kg/dm ³
Operating differential	fixed 12 mm
Wetside material	Stainless steel (CrNiMo)
Flange material	Stainless steel (CrNiMo)
Switch housing material	Stainless steel (CrNiMo)
Flange	DN 65, PN 40 to DIN 2501
Flange facing	Raised face type C, DIN 2526
Switch element	Inductive proximity switch acc. to NAMUR/EN 50227
Nominal voltage	8.2 VDC ±5%
Operating voltage	5 to 25 VDC
Current output	
Proximity open	≥2.2 mA float down
Proximity closed	≤1 mA float up
Function	
as high alarm	at closed circuit
as low alarm	at operating circuit
For inverse function	Type 5TDIN 22CF 041
Enclosure	IP 67
Weight	approx. 7.7 kg



The Plastic Range for corrosive or high purity media

The main feature of the Plastic Range is that all wetside materials are in corrosion resistant plastics such as PP, PTFE or PVDF. Following are four typical examples, but these are by no means the limit of possible combinations which can be specified by reference to the module descriptions on pages 21 to 35.

Type A 301 99 - For general use in PP

Nominal pressure	PN 10	max. 10 bar up to 25°C max. 5 bar at 45°C max. 2.5 bar at 60°C
Operating temperature	0 to 60°C	
Ambient temperature	0 to 60°C	
Density of liquid	min. 0.65 kg/dm ³	
Operating differential	fixed 12 mm	
Rod extension	see page 36	
Wetside material	PP	
Flange material	Seal part: PP Composite flange: PVC	
Switch housing material	Sea water resistant die cast aluminium	
Flange	DN 80, PN 10 to DIN 2501	
Flange facing	Raised face type C, DIN 2526	
Switch element	Microswitch SPDT, silver contacts	
Switch rating	250 VAC, 5 A 30 VDC, 5 A	
Enclosure	IP 65	
Weight	approx. 1.9 kg	

Type A 304 98 - For high temperature and corrosive applications in PTFE

Nominal pressure	PN 10	max. 10 bar up to 50°C max. 6 bar at 100°C max. 3 bar at 200°C
Operating temperature	0 to 200°C	
Ambient temperature	0 to 70°C	
Density of liquid	min. 0.75 kg/dm ³	
Operating differential	fixed 12 mm	
Rod extension	see page 36	
Wetside material	PTFE	
Flange material	Seal part: PTFE 25% GRP Composite flange: H II, zinc galvanised, passivated	
Switch housing material	Sea water resistant die cast aluminium	
Flange	DN 80, PN 10 to DIN 2501	
Flange facing	Raised face type C, DIN 2526	
Switch element	Microswitch SPDT, silver contacts	
Switch rating	250 VAC, 5 A 30 VDC, 5 A	
Enclosure	IP 65	
Weight	approx. 5 kg	

Vacuum Applications:

For vacuum duty a modified sealing must be used, suffix to flange code is E20, e.g. A 301E20 99. This must be specified in the purchase order. The vacuum sealing unit is capable of operating to 0 bar absolute pressure.

Proven application areas: chemical engineering, electroplating, food industry, etc.

