

technische import

Productinformatie



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Bi stable integrated cartridge valve, DN 7 urinal applications



A. u. K. Müller

Solenoid valves Control valves Special valves and systems

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Characteristics

- servo-controlled
- pre tested functional unit
- long term performance capability
- internal triple pollution protection
- compact design
- optimized Cv-value for DN 7
- optimized water hammer characteristic by low noise emission according to EN 60730
- easy to assemble and service
- standard connection
- cylindrical design
- low power consumption
- any fitting position
- suitable for spray and jet water
- high operating safety through the use of high quality materials and 100% final testing of the products
- optoelectronic IR sensor with micro controller for contactless operating of cartdirdge valve
- encapsulated electronic, protection type IP 65
- electronic completely wired to cartridge valve
- low bias current for elongated battery lifetime
- enforced flush after 24 hours without any detection
- start up with default settings on power on.
 Plug on battery is all what is needed

Series 050-U07-06I/-09I



Applications

automatic sanitary urinals

Description

2/2-way solenoid cartridge servo controlled valve of DN 7 in bi stable version with integrated sensor and electronics, to be used particularly in electronically controlled urinals.

The designs compact outline enables trouble free integration of the unit into the urinals.

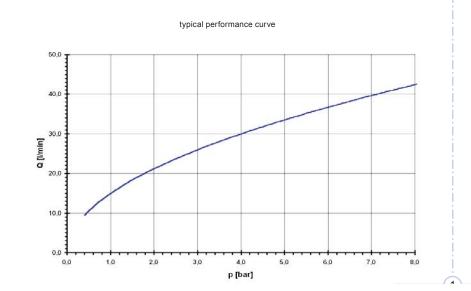
A LED flashes each time, to signal that the detection area had been entered or left.

Start up using default settings on power on. Plug on battery is all what is needed.

Within the first 30 minutes after power on, a sleep mode may be activated, to enable an elongated storing period of the battery equipped urinals by reducing bias current.

Individual settings may be achieved by an optional IR-remote control. (detection range, on- off, follow-up time)

The screw in type simplifies assembly, service and check.

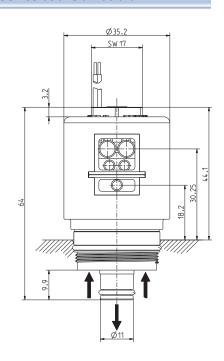


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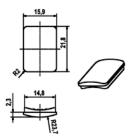


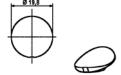
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Series 050-U07-06I/-09I

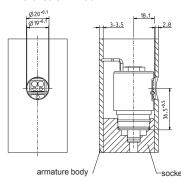


protection windows

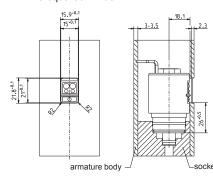




installation within armature using a circular window

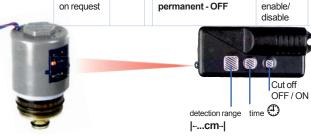


installation within armature using a squared window



Materials					
Valve body	PEI				
Plunger guide	stainless steel				
Plunger	stainless steel				
Membrane and sealings	EPDM NBR (on request) VMQ (on request)				
Coil	1.0338 "pot"-bracket				
Filter	stainless steel (in inlet)				
Top cover	POM				

Options							
standard cable lenght			IR - remote controll IRS-RC3 available				
with leads and connector	100	mm	detection range	120 - 800	mm		
with leads	120	mm	flusch time	0,5 - 15,5	sec		
connector	on request		permanent - OFF	enable/ disable			
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Technical Data							
Туре	2/2-way-car	tridge valve					
Construction	screw in, servo controlled						
Function	bi stabil, pulse controlled						
Connection	thread M28						
fitting position	any						
Media	cold and heated potable water and physically and chemically similar media						
T-Medium	5 - 70 °C.						
T-Ambient	5 - 60	°C					
DN	7	mm					
p-operating	0,5 - 8,0	bar					
Cv-value	20	l/min (with Silencer Qmax 20 l/min patented EP 0 999 392)					
Pressure surge	according to	according to EN 60730					
Coil type	MS.033						
Nominal voltage	6 9	V DC V DC					
	special voltages on request						
Operating voltage		5,0 - 6,0 V DC open/close 7,5 - 9,0 V DC open/close					
Signal of low voltage levels	< 5,0 V LED flashing < 4,7 V LED persistent signal, valve will be closed permanent < 7,5 V LED flashing < 7,0 V LED persistent signal, valve will be closed permanent						
Battery voltage detection	automatic						
Grade of noise	II in test housing						
Lifetime of valve	min. 280.000 cycles / 5 a						
Lifetime of battery	6 V Lithium (min. 1.300 mAh) approx. 4 years 9 V Alkaline (min. 600 mAh) approx. 2,7 years for 150 actuations / day						
Duty cycle	100%						
Nominal power	0,5 - 1,2 W						
Protection type	IP 65	higher IP cl on request	asses				
Insulation class	F	according to EN 60730					
Protection class	III	according to EN 60730	0				
IR detection range	automaticall	y on Power	ON				
Default settings							
Detection range	650	mm (± 25% w/o IR-wind	,				
Min. length of stay	7,5	sek (± 25 se	ec%)				
Flushing time	5,5	sec (± 1 sec	c)				
Enforced flush	every 24	h w/o detection					
Follow up time	< 2,5	sec (depends o operating p					



Accessory remote control IRS-RC3



Characteristics

- For external IR-sensor
- Compact design
- Easy to use
- Change of default settings
- Coverage range and timing can only be adjusted within a time period of 30 minutes after Power-On of the sensor

- Parameter adjustment for integral cartridge valve urinal
- ON/OFF application of the sensor (for maintenance or cleaning process)

Description

The default settings are effectual for a variety of applications, but can be modified by the remote control if required. Three buttons are located on the remote control to modify the coverage range, rinsing time and the switch-off function of the sensor.

The IR remote control has to be kept within a distance of approx. 20 cm (7.87 in) and a bit sidewise to the front of the IR receptor.

This remote control for IR-sensors is mostly addressed to plumbers who have to adjust parameters different to the default settings.

End users may also adjust the IR-Sensor on site to their individual needs.

- **Applications**





LED signal of sensor to confirm settings.

= Flashing of LED

Holding the IRS-RC3 a bit sidewise outside the detection range of the sensor will avoid an unintended detection with a subsequent flush.

- Dimensions for remote control 60 x 30 x 15 mm (2.36 x 1.18 x 0.59 in)
- Supply voltage 6 V - DC
- Coverage range approx. 200 mm (7.87 in)
- Replacement alkaline battery E11A - 6V - Energizer





The detection range and timing can only be adjusted within 30 minutes after Power-On of the sensor. Disconnect power and reconnect after 5 s to restart the time period of 30 minutes if needed.

After the time of 30 minutes has elapsed only the OFF/ON button is active.



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General Procedure

...cm... - Coverage range adjustment *)

Button (press continuously) for all coverage ranges,

starting from the active adjusted level the coverage range increases immediately step by step while a flashing of the red signal-LED on the sensor confirms the setting.

By releasing the button the new adjusted coverage is fixed.

Manual adjustment of the coverage range **)

20 steps ***)

- 1. step = minimum... 20. Step = maximum coverage range (80 cm)
- 31. step = automatic detection range adjustment

If applied with 050-U07-06I/-09I an automatic adjustment of coverage range is carried out after each adjustment and initialization (switch on / applying supply voltage). The automatic adjustment starts after the 10^{th} flashing of the LED.

No object should be within the coverage range of the sensor during the automatic adjustment process.

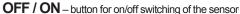
- *) Especially the coverage range specifications are only suitable for orientation. According to the position of the sensor in the armature, the coverage range can differ due to the various ambient light conditions and the usage of different IR-windows. The typical adjustment ranges are indicated for times and coverages.
- **) Urinal step 1 20: Continuous detection may lead to none function
- ***) In the case of 050-U07-06I/-09I step 21 30 are not enabled

Time – switch-off delay of the valve

Button (press continuously) for all time adjustment, starting with the current adjusted position the time increases gradually, Releasing the button fixes the new adjusted time.

1. step = minimum, 31. step = maximum

1. step = minimum, 31. step = maximum (not for all functionalities)



The button is used to switch-off the sensor (e.g. for cleaning). This status is indicated by flashing of the LED for ten times.

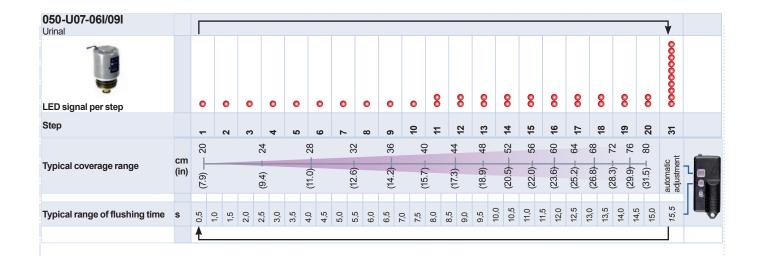
To restart please press the button again.

The reactivation of the sensor is again shown by flashing for ten times.

Afterwards the valve will open once with the current adjusted time.











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