

Product Information

Remote Control



A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

A.u.K. Müller GmbH & Co. KG
Dresdener Str. 162
D-40595 Düsseldorf/Germany

Tel.: +49(0)211-7391-0
Fax: +49(0)211-7391-281

e-mail: info@akmueller.de
Internet: www.akmueller.de

Series 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

Applications

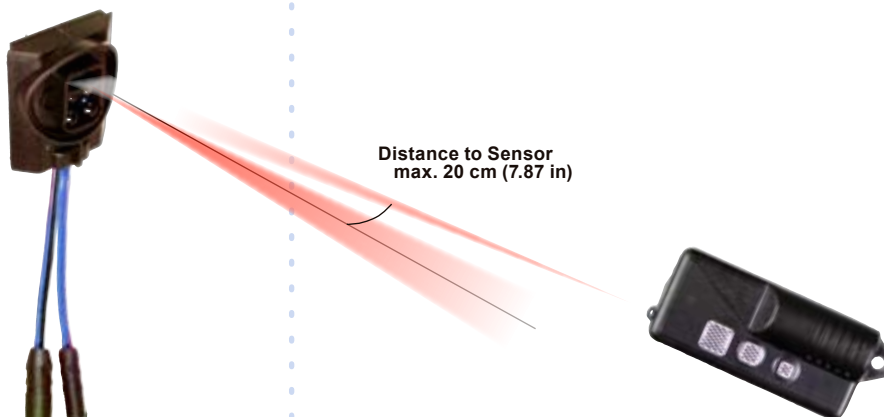
- IR-Sensor types

IRS-WT	Faucet
IRS-WT-E	Faucet Eco Mode
IRS-WT-OF	Faucet ON/OFF Mode

IRS-UWS-U	Urinal (Stadium Mode included)
IRS-UWS-WC	WC
IRS-UWS-BDM	Shower (Body Detect Mode)
IRS-UWS-HDM	Shower (Hand Detect Mode)

Description

Remote Control to adjust individual settings for detection range, ON-OFF, time parameters for IR-Sensor types.



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



Series IRS-RC3

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.

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

- Faucet:
coverage range, delay, ON/OFF
- Urinal/WC:
coverage range, flushing time, ON/OFF
- Shower: On-OFF
Shower BDM: coverage range, delay
Shower HDM: coverage range, time of flow

- 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



Remote Control

[...cm...]
detection range

⌚-Time

OFF / ON



The default settings are effectual for a variety of applications, but can be modified by the remote control if required.

- the IR remote control is applicable to the external sensor for all functionalities
- 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.
- 3 buttons are located on the remote control to modify for example the coverage range, rinsing time (urinal respectively), the switch-off delay (faucet) and the switch-off function of the sensor.



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.

IR Sensor



LED signal of sensor to confirm settings.

● = Flashing of LED



Series IRS-RC3

|...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 **) 30 steps

1. step = minimum... - 30. Step = maximum coverage range or

(1. step = minimum... - 4. Step = maximum coverage range)

Automatic adjustment of coverage range 31. step (not for all functionalities)

The automatic adjustment starts after the 10th 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 - 30:
Continuous detection may lead to none function

Faucet step 1 - 30:
Automatic adjustment to the water jet of the armature after each adjusted step.

General Procedure



⌚-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 (not for all functionalities)



OFF / ON – button for on/off switching of the sensor

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.



Time period for forced flush (not for all functionalities) could be

changed by pressing the ⌚-time and |...cm...| buttons simultaneously.

On each activation 24 h / 72 h or OFF could successively be set.

The LED-signal (red) of the sensor confirms the setting by flashing ● as follows:

24 h	● - ●
72 h	●● - ●
OFF	●●● - ●





Series IRS-RC3

Settings of faucet functionalities

IRS-WT Faucet	
LED signal per step	
Step	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Typical coverage range	cm (in) 4 (1.6) 6 (2.4) 8 (3.1) 10 (3.9) 12 (4.7) 16 (6.3) 20 (7.9) 24 (9.4) 28 (11.0) 30 (11.8) Automatic adjustment
Typical range of turn off delay	s 0.5 0.8 1.0 1.3 1.5 1.8 2.0 2.3 2.5 2.8 3.0 3.3 3.5 3.8 4.0 4.3 4.5 4.8 5.0 5.3 5.5 5.8 6.0 6.3 6.5 6.8 7.0 7.3 7.5 7.8 8.0


IRS-WT-E Faucet	
LED signal per step	
Step	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Typical coverage range	cm (in) 4 (1.6) 6 (2.4) 8 (3.1) 10 (3.9) 12 (4.7) 16 (6.3) 20 (7.9) 24 (9.4) 28 (11.0) 30 (11.8) Automatic adjustment
Typical max. time of flow	s 1 2 3 4 5 6 7 8 9 10 12 14 16 18 20 22 24 26 28 30 35 40 45 50 55 60 65 70 75 80
Typical range of turn-off delay	s 1


IRS-WT-OF Faucet	
LED signal per step	
Step	1 2 3 4
Typical coverage range	cm (in) 4 (1.6) 8 (3.1) 12 (4.7) 16 (6.3)
LED signal per step	
Step	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Typical max. time of flow	s 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310



Series IRS-RC3

Settings of Urinal, WC, Shower functionalities

IRS-UWS-U Urinal (Stadium Mode included)	
	
LED signal per step	
Step	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Typical coverage range	cm (in) 20 (7.9) 24 (9.4) 28 (11.0) 32 (12.6) 36 (14.2) 40 (15.7) 44 (17.3) 48 (18.9) 52 (20.5) 56 (22.0) 60 (23.6) 64 (25.2) 68 (26.8) 72 (28.3) 76 (29.9) 80 (31.5) Automatic adjustment
Typical range of flushing time	s 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5

IRS-UWS-WC WC	
	
LED signal per step	
Step	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Typical coverage range	cm (in) 20 (7.9) 24 (9.4) 28 (11.0) 32 (12.6) 36 (14.2) 40 (15.7) 44 (17.3) 48 (18.9) 52 (20.5) 56 (22.0) 60 (23.6) 64 (25.2) 68 (26.8) 72 (28.3) 76 (29.9) 80 (31.5) Automatic adjustment
Typical range of flushing time	s 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5



Series IRS-RC3

Settings of Urinal, WC, Shower functionalities

IRS-UWS-BDM Shower (Body Detect Mode)	
LED signal per step	1 to 31 (31 red dots)
Step	1 to 31
Typical coverage range	cm (in): 20 (7.9) to 80 (31.5) with increments of 4 cm (1.6 in). Includes 'Automatic adjustment' label.
Typical range of turn-off delay	s: 0.5 to 15.5 with increments of 0.5

IRS-UWS-HDM Shower (Hand Detect Mode)	
LED signal per step	1, 2, 3, 4 (4 red dots)
Step	1, 2, 3, 4
Typical coverage range	cm (in): 4 (1.6), 8 (3.1), 12 (4.7), 16 (6.3)
LED signal per step	1 to 31 (31 red dots)
Step	1 to 31
Typical max. time of flow	s: 10 to 310 with increments of 10