



SOLUTIONS FOR PRISONS AND HIGH SECURITY LOCATIONS

Facing the challenges in the prison environment

Prisons and high security incarcerating facilities are facing the struggle of providing a regular and sufficient water supply. Very often, there is little or no water supply to showers, toilets, cells and dormitories because the taps and pipes are damaged.

Another problem presents itself in the way of the need to keep the order and safety of the inmates and staff alike, without relinquishing sanitary standards.

As shower heads, faucet handles and other sanitary fixtures in prisons are often vandalized and misused, they are required to be anti-ligature, highly vandal resistant and provide water control possibilities for the secure environment.

Kassel's advanced product line for prisons is a promising solution for these facilities to keep high sanitation standards as well as high security.



Water supply and toilet flushing in inmates cells

Kassel provides a Piezo solution that includes three programmable piezo switches for three different applications: hot water supply, cold water supply and toilet flushing.

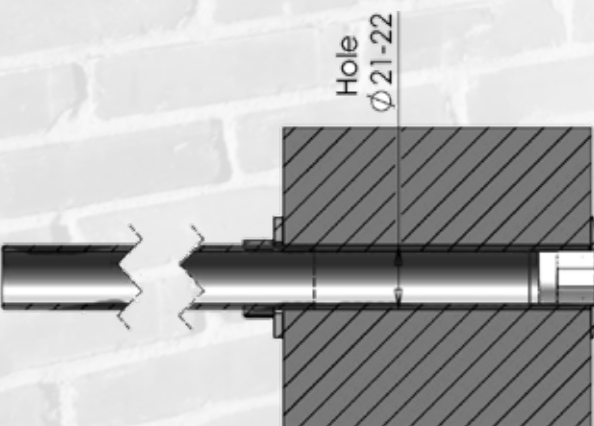
Replacing the conventional, prone to vandalism faucet, each inmate cell uses two piezo switches as an interface to control hot and cold water flow at the washbasin. Each piezo switch connects to a separate solenoid valve that opens and closes the hot and the cold water flow.

A third Piezo switch is used for flushing the toilet. Again it connects to a solenoid valve, in this case incorporated in a piston flush valve for toilet flushing.

Showers

Kassel's programmable piezo kit for showers is specially designed with an anti-ligature, vandal-resistant shower head that is ideal to be combined with Kassel's piezo kits. Each shower has an interface programmed in the Piezo switch to control the shower flow time. The piezo switch at the shower control is connected to a solenoid valve that opens and closes the water flow.

Each activation of the Piezo switch gives a pre-set run cycle at a pre-determined temperature.


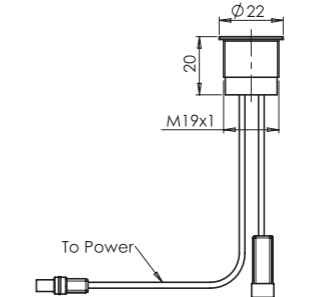

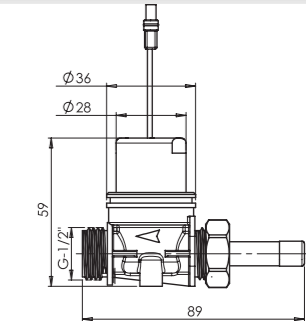



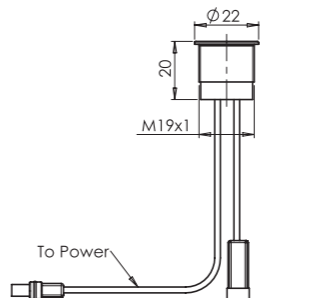

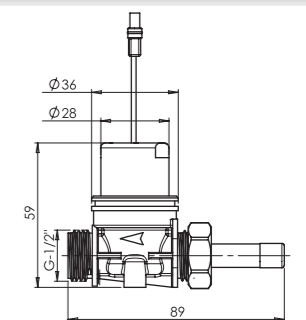
Benefits

- Non-hold-open feature
- Optional remote maintenance through a single wire leading from the service area to each piezo switch in the prison cell
- Programmable flow time
- Prevention of bacteria growth by an automatic 24 hours hygiene flush, optional to enable and disable on site
- Conserving water
- Accurate water flow
- Option to close the water flow before completion of the water flow cycle.
- Minimal maintenance requirements:
- Robust design
- No moving parts




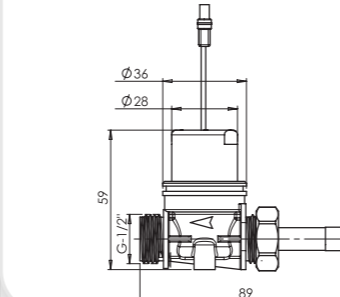
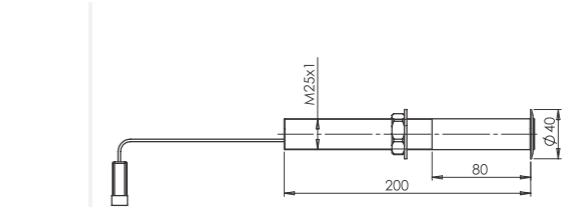
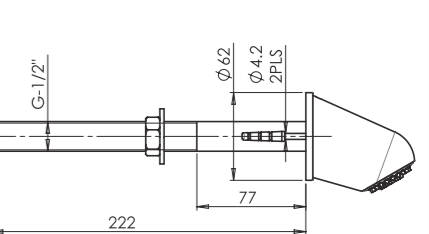


Technical Information

			
CONTACT KIT FOR FAUCET			

			
CONTACT KIT FOR URINAL			

			
CONTACT KIT FOR TOILET			

		
		
CONTACT KIT FOR SHOWER		

PRODUCT AT A GLANCE	
Power source	Electrical connection with individual transformer or transformer junction box for the three switches together or battery box.
Operating water pressure	Washbasin applications: 0.5 -8.0 bar (7 - 116 PSI). Toilet application: 1-8.0 bar (14.50-116 PSI)
Flow time	Preset at factory according to request. Installation or maintenance staff can easily change it on site if desired.
On-off function	The water flow can be stopped by touching the Piezo button before the water cycle has passed. This function allows saving more water, enabling users to stop water discharge whenever water is no longer needed.
Automatic	Optional. Can be programmed on site if desired

ORDERING INFORMATION		
PRODUCT NAME	PART NUMBER	POWER SUPPLY
CONTACT KIT FOR FAUCET	KSL00575	To be selected
CONTACT KIT FOR URINAL	KSL00576	To be selected
CONTACT KIT FOR TOILET	KSL00577	To be selected
CONTACT KIT FOR SHOWER	KSL00578	To be selected

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