SWISS PRECISION

DIMETIX
LASER DISTANCE SENSORS

DIMETIX APPLICATION EXAMPLE

AE-0104

POSTION MEASUREMENT OF FLOODGATES

Industry : Geodesy and Construction, Hydro tech

Application type : Position measurement, Monitoring

Brief description

Pic 1: Floodgates under construction

In times of floodwater, floodgates guarantee the controlled efflux of the enormous house of water. It is necessary to know the exact position of the floodgates, in order to determine the amount of overflow. For this purpose, at the locks of the Yeongsan River in South Korea (position of the barrage) DIMETIX distance laser sensors are in use.

DIMETIX sensors measure the position of the floodgates millimeter precise and absolutely contactless. Since the sensors do not consist of any movable parts, they are maintenance free. The floodgates at the Yeongsan River are lifted up to 15m. Neither this measuring distance, nor the environmental temperature of up to -20°C cause a problem to the laser sensors. This is thanks to an integrated heating which enables the use of the sensors even at temperatures of -40°C.

The DIMETIX sensors meet the requirements of the customer in an optimal way. Their installation was very fast and extremely easy. The sensors are fixed in the upper service area and the laser beam points to the top of the gates. DIMETIX sensors measure on natural targets, there is no need for target plates. The sensors are connected to a control via RS-422. A great advantage of the DIMETIX distance laser sensors is their astonishing temperature range of 90°C – from -40°C to +50°C. Thanks to this, they are an excellent choice for outdoor applications in most parts of the globe.

Pic 2: Sensor for position measuring

The solution with the DIMETIX sensors enables the customer to permanently monitor the position of all floodgates and thus to know the flow rate at any time.

Customers advantages

- Easy installation due to visible laser beam
- Operates in a vast temperature range
- Maintenance free

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Dimetix AG • Degersheimerstr. 14 • 9100 Herisau • Switzerland • Phone +41 71 353 00 00 • Fax +41 71 353 00 01 • info@dimetix.com • www.dimetix.com