

## WLS Namur, Chem, Type 6902-15

- Monitoring of the filling level of flammable fluids in Zone 0 or Zone 1 under atmospheric conditions
- For use in tanks, reservoirs or pipelines on tankers
- Can also be used in static position
- 2-lead sensor (Namur)



### Operation

Monitoring of the fluid level is based on an optical principle. The sensor's infrared light, which is emitted by infrared luminescent diodes, is directed through a cone. If the cone is located in air, the infrared light will be reflected in such a way that it hits phototransistors. If the cone is located in a fluid (= quantity remaining = not empty), the infrared light is not reflected.

### Mounting

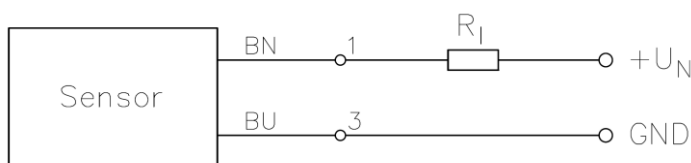
The WLS Namur, Chem is mounted by means of a G1/2" threaded connector attached to the tank reservoir or pipeline wall.

### Installation guide

In the ex-area, the norms EN 60079-14, EN 60079-11 and EN 60079-26 must be observed. The WLS Namur, Chem should be incorporated into the pressure testing system of the tank, reservoir or pipeline.

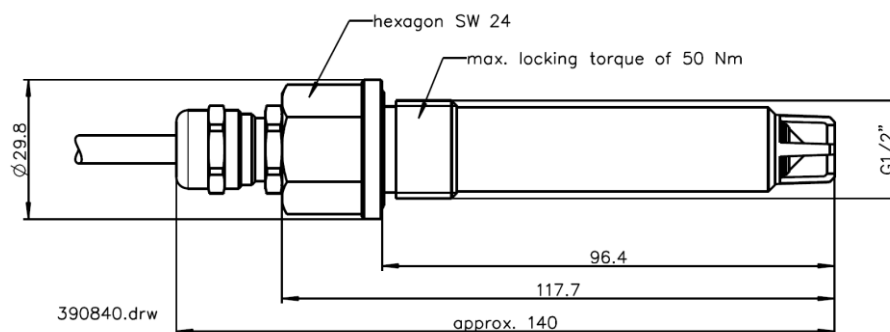
The sensor must be screwed with a maximum locking torque of 50 Nm.

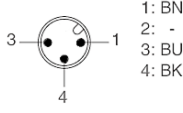
### Circuit diagram



390840.dwg

### Dimensions



Technical Data				
<b>Electrical data</b>				
Supply voltage (UV)	DC 5V ... 12V			
Rated voltage (UN)	DC 8.2V			
Ripple	≤ 0.5%			
Current consumption (typ.) Sensor is not wet Sensor is wet	≤ 1mA min. 2.5mA			
Connecting cable	0.80m with M12 plug			
Terminal layout		<b>PIN</b>	<b>Colour</b>	<b>Function</b>
		1	brown	+UN
		2		NC
		3	blue	GND
		4	(black)	NC
<b>Ex- technical data</b>				
Intrinsically safe signal and supply circuit Category Ex ia IIB				
U <sub>i</sub> = 10V				
I <sub>i</sub> = 85mA				
P <sub>i</sub> =	Ex ia IIB		P <sub>i</sub>	
	Temperature class			
	T3		85mW	
	T4		180mW	
C <sub>i</sub> = negligibly small; L <sub>i</sub> = negligibly small				
<b>Ambient conditions</b>				
Permissible ambient temperature atmospheric conditions	-20 °C ... +60 °C 0.8 bar ... 1.1 bar			
Protection class (in compliance with EN 60529)	IP 67			
Permissible operating pressure pN	0.8 bar ... 25 bar			
Equipment group/-category/ type of protection	II 1/2 G, Ex ia IIB T3-T4 Ga/Gb			
Certificate	PTB 99 ATEX 2040			
Norms	EN 60079-0, EN 60079-11, EN 60079-26			
<b>Mechanical data</b>				
Dimensions	See drawing			
Housing material	Glass / stainless steel			
Resistance	Mineral oil, aqueous urea solution			
<b>Device-specific data</b>				
Sensing distance (S <sub>n</sub> )	-8mm			
Readiness delay	≤ 20ms			
<b>Order details</b>				
<b>Description</b>		<b>Order number</b>		
WLS Namur, Chem, Type 6902-15		390840		
<b>Accessories</b>				
O-ring 22.0 x 2.0		U220753		
Protective cover		U05006748		
Sensor cable with 5m connector		292978		
Welded sleeve VA (6729-00-081)		410041		