

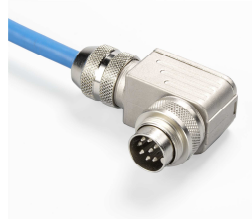
Liquid Measurement with Oval Gear Meters

Signal Lines

Pulses coming from the oval gear meter can be transmitted to the respective analyzing units, switch amplifiers, frequency-to-voltage transformers and frequency-to-current transformers, as well as to electronic and electric counters using signal lines. Outputs according to NAMUR or PNP/NPN are available for that.



NAMUR signal line with right-angle plug



8 pole right-angle plug WS-8p



PNP signal line with straight plug

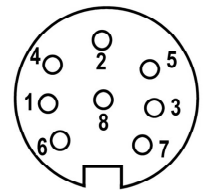


6 pole plug GS-6p

8-pole socket at the oval gear meter

Both the NAMUR and the PNP/NPN output signal are available here. Selection of the signal type depends on the pin assignment of the delivered plug or the signal line.

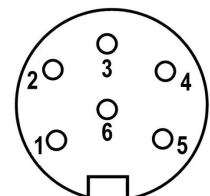
PIN	NAMUR (blue cable) DC - article No: 70000.0003 AC - article No: 70000.0008 Cable length 5 m		PNP/NPN (grey cable) DC - article No: 70000.0004 AC - article No.: 70000.0007 Cable length 5 m	
	Configuration	Line colour	Configuration	Line colour
1	Not used		Channel 2 Signal	White
2			Channel 1 +	Brown
3			Channel 1 Signal	Green
4	Channel 2 +	Yellow	Not used	
5	Channel 1 +	Red		
6	Channel 2 -	Grey	Channel 2 -	Yellow
7	Channel 1 -	Blue	Channel 1 -	Grey
8	Not used		Channel 2 +	Pink



6-pole socket at the oval gear meter

Either the NAMUR output signal or the PNP/NPN output signal is available here. The required signal has to be specified when ordering the oval gear meters.

PIN	NAMUR (blue cable) GS - article No:708-40-121 WS - article No:708-40-122 Cable length 5 m		PNP/NPN (grey cable) GS - article No: 708-40-120 Cable length 5 m	
	Configuration	Line colour	Configuration	Line colour
1	Channel 1 +	Red	Channel 1 +	Brown
2	Channel 1 -	Blue	Channel 1 Signal	Green
3	Not used		Channel 1 -	Grey
4	Channel 2 +	Yellow	Channel 2 +	Pink
5	Channel 2 -	Grey	Channel 2 Signal	White
6	Not used		Channel 2 -	Yellow



Technical specifications of the outputs

	NAMUR	PNP / NPN
Switching voltage	8,3 V DC	10 - 24 VDC
Tolerance	max. 5%	+/-5%
Switching current	>4 mA @ 8 V DC 1 kΩ	100 mA
Bias current	<1 mA @ 8 V DC 1 kΩ	-
Explosion protection	IBEx U04 ATEX 1067 Ex II 2G EEx ib IIC T4	not existing

Please note: When using the Namur signal line, the insulation test has to be carried out in the plant. The cable with the plug were not tested! Connection is permitted only to two-channel isolating switch amplifiers with a common NAMUR PLUS (+) signal. Connection is not permitted to two galvanically isolated circuits! There will be no explosion protection!