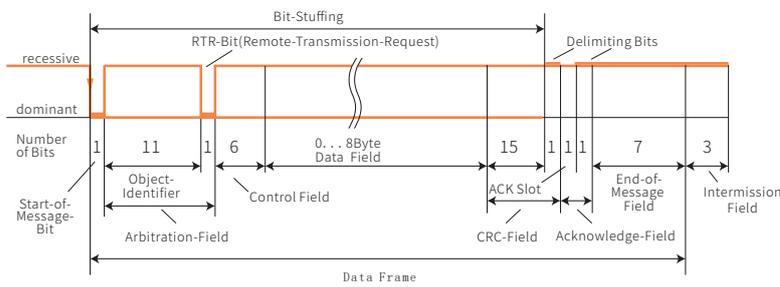




YW-CANopen

YW series

Liquid level temperature sensors



- + Robust and durable, fully enclosed design, highest IP68 protection level
- + Linear measurement, absolute value output without zeroing
- + Easy to use, standard singal output, maintenance -free
- + Full scale adjustable, 100% adjustable zero and full scale
- + Highest reliability: long-term use, stable and reliable



TECHNICAL PARAMETER

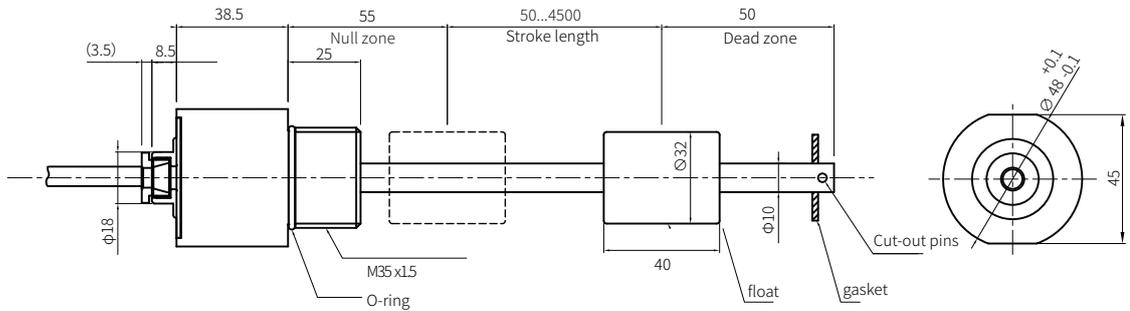
TECHNOLOGY PERCEIVES THE FUTURE

Input	
Measured data	liquid level, temperature
Measurement range	Liquid level: (50...4500)mm, Temperature: (-40...125)°C
Output	
Communication protocols	CAN bus system protocol, ISO11898 CAN open CIA standard DS-301 V3.0 encoder profile DS-406 V3.1
Transmission rate	10 kbps...1Mbps
Resolution	
Resolution	100µm
Liquid level	±0.04% F.S .
Temperature	±1°C
Update time	2ms (Customizable)
Temperature coefficient	<30ppm/°C
Mounting	
Mounting form	M18× 1.5 , M35× 1.5, Custom flanges
Design/Material	
Electronics housing	Stainless steel 304
Measuring rod	Stainless steel 304/316L
Float	304/316L/NBR
Electrical connection	
Wiring connection	Straight out cable
Operating voltage	9...36VDC
Polarity protection	Up to -36VDC
Overvoltage protection	Up to +36VDC
Power consumption	≤ 70mA
Dielectric strength	500VDC (DC ground to machine ground)
Operating conditions	
Operating temperature	-40...85°C
Humidity	90 % relative humidity, no condensation
Ingress protection	IP68 (customizable)

|

Straight out cable

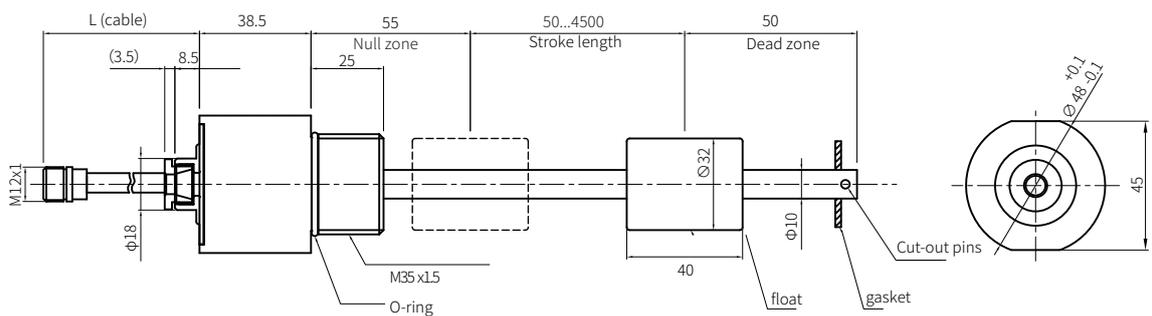
YW- _____ - RP _____



Color	● Brown	○ White	● Yellow	● Green
Function	9...36VDC	0V(GND)	CAN-H	CAN-L

5 pin M12 connector

YW- _____ - DP _____



PIN	1	2	3	4	5
Function	NC	9...36VDC	0V(GND)	CAN-H	CAN-L

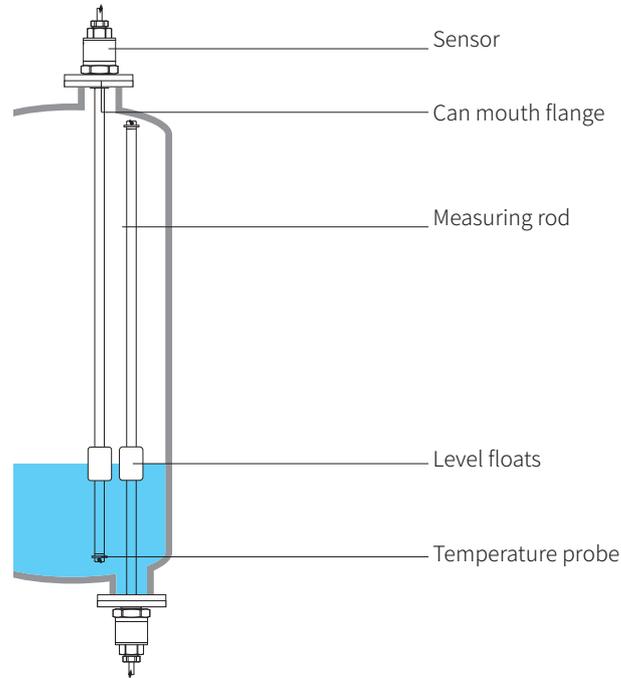


MECHANICAL MOUNTING DIAGRAM

TECHNOLOGY PERCEIVES THE FUTURE

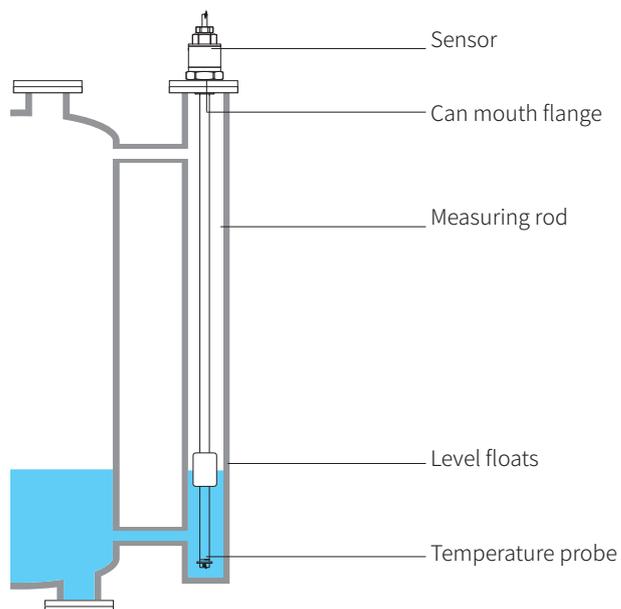
Threaded, flanged mounting

Most tanks are suitable for this type of measurement, and the connecting flange or user-specific sub-flange can be selected, and the level sensor mounting thread is screwed directly into the flange. As shown, the product is mounted vertically with the float "on" marked upwards.



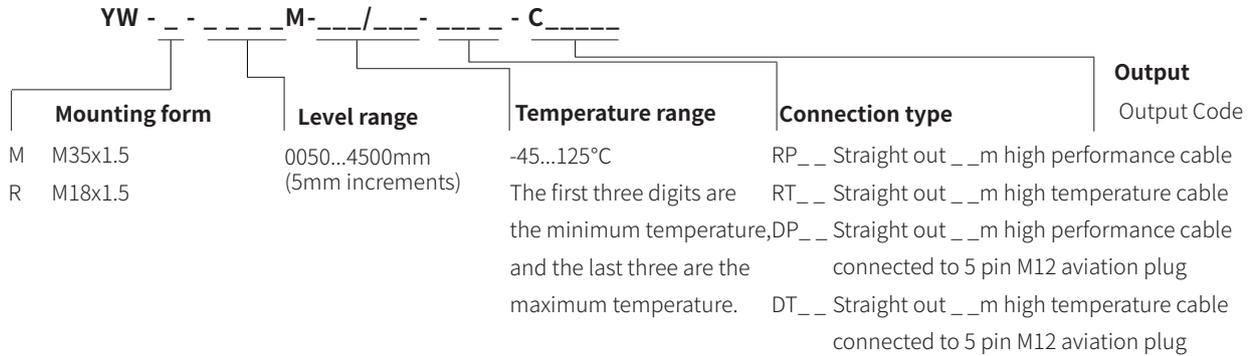
Bypass tube installation

The bypass pipe installation is suitable for occasions where the liquid in the tank is stirred vigorously or the liquid temperature is high, such as in the chemical industry.



ORDER CODE

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(If the cable length is less than two digits, add zeros in front.)

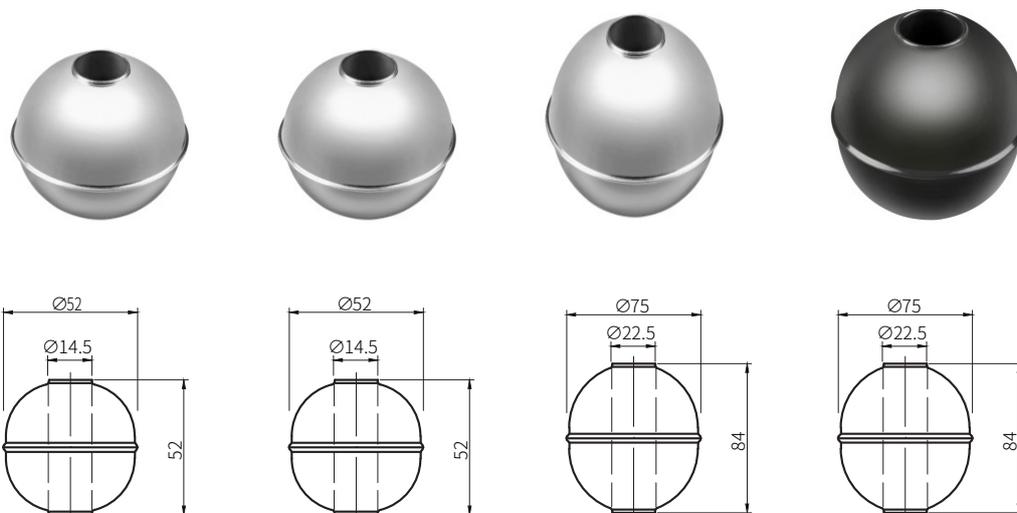
CANopen Output Code	C[1][2][3][4][5] Note: "*" as default			
	[1]Resolution	[2]Baud rate	[3]PDO cycle	[4][5]Node-ID
5	100µm	0 1000kBit/s 1 800kBit/s 2 500kBit/s 3 250kBit/s* 4 125kBit/s 5 100kBit/s 6 50kBit/s 7 20kBit/s 8 10kBit/s	1 1ms 2 10ms* 3 100ms 4 Customizable (1-65535ms)	Hexadecimal 01...7F*

Model selection | Model: YW-M-0500M-000/125-RP05-C53201

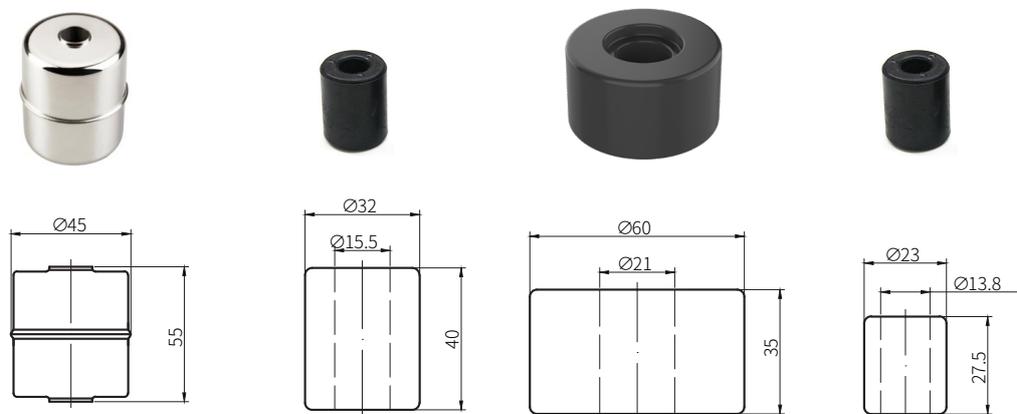
Explanation: YW series liquid level temperature sensor, M35x1.5 threaded mounting, liquid level range 500mm, temperature range 0... 125° C, cable length 5 meters,CANopen output, resolution ratio 100µm, baud rate250kBit/s, PDOcycle 10ms, node-id 01.

PARTS SELECTION

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Name	Float	Float	Float	Float
Density	0.92g/cm ³	0.66g/cm ³	0.92g/cm ³	0.66g/cm ³
Material	316L	316L	316L	316L Surface coated with PTFE
Pressure resistance	3.4MPa	3.4MPa	3.4MPa	3.4MPa
Operating temperature	-40...105°C			
Order code	11-1050	11-1051	11-1048	11-1049



Name	Float	Float	Float	Float
Density	0.53g/cm ³	0.44g/cm ³	0.5g/cm ³	0.71g/cm ³
Material	316L	NBR	NBR	NBR
Pressure resistance	3.4MPa	/	/	/
Operating temperature	-40...105°C			
Order code	11-1052	11-1053	11-1054	11-1056

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