

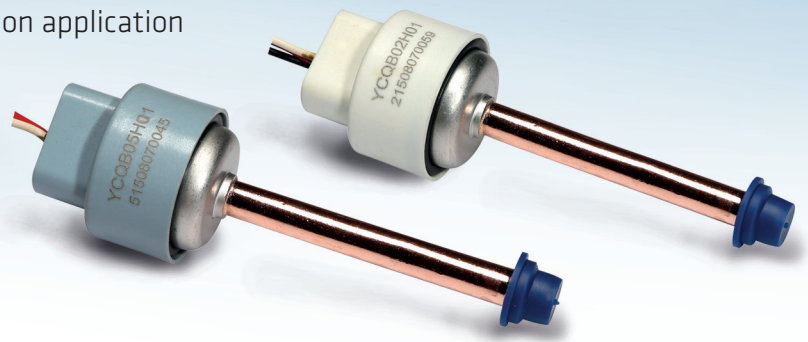
# Quick-connect plug for easy installation

## Pressure Sensors YCQ

Sanhua new Pressure sensors range can be widely used in Air Conditioning, Refrigeration and Heat Pump system. They are compact, lightweight, high reliability with a robust structure which allows the pressure transducers to be used in a wide variety of refrigerants.

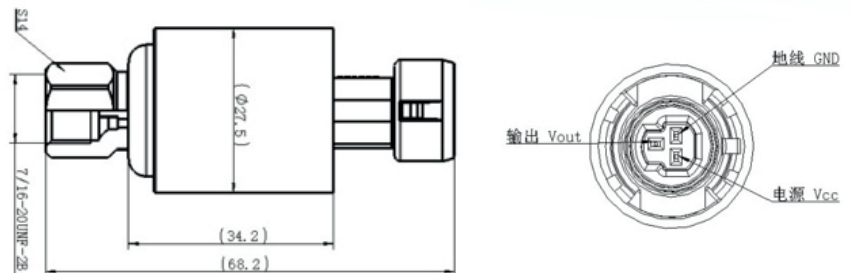
### MAIN FEATURES

- New versatile range for A/C and refrigeration application
- Compact, light and reliable design (IP67)
- Quick-connect plug for easy installation (Packard connector)
- High level of accuracy in a wide temperature range



### 1) YCQB – Ratiometric Version

Using a 5 V excitation input these sensors provide a 0.5-3.5 V or 0.5-4.5 V ratiometric signal output proportional to the pressure of the medium. This device requires no end user amplification.



### Electrical Specification

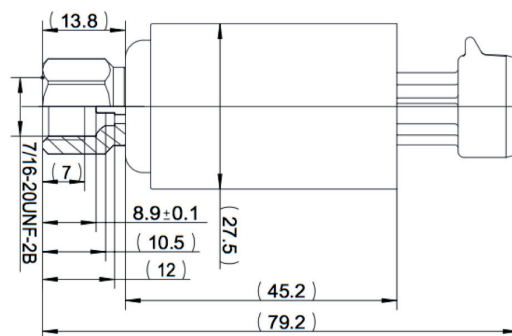
Model Name	Part Number	Ambient Temperature	Relative Humidity	Medium Temperature TS min / max	Temperature Range for maximum accuracy	Maximum Operating Pressure (MOP) [ Mpa ]
YCQB01L50	10185004201	-30°C / +80°C	from 0 to 95%	-30°C / +130°C	± 2,0 % F.S. in the range -30°C / +120°C	5,25
YCQB04L50	10185004201			-30°C / +120°C	± 1,0 % F.S. in the range -30°C / +85°C	5,25
YCQB05L53	10185013401			-30°C / +130°C	± 2,0 % F.S. in the range -30°C / +120°C	7,50

### General Characteristics

Model Name	Mechanical connection			Current Consumption	Supply Voltage	Pressure Range (0 to pr) [ Mpa ]	Output (VA0 to VApr) [V]	Maximum Accuracy
	Type	Pipe Size [inch]	Thread size					
YCQB01L50	Thread	SAE - 1/4"	7/16-20UNF	Max. 10mA	5V ± 0.25V DC	0 to 0,93	0,5 to 4,5 DC	± 2,0 % F.S.
YCQB04L50	Thread	SAE - 1/4"	7/16-20UNF			0 to 3,45		± 1,0 % F.S.
YCQB05L53	Thread	SAE - 1/4"	7/16-20UNF			0 to 4,5		± 2,0 % F.S.

## 2) YCQC - 4-20mA Version

Using a DC 10-30V excitation input these sensors provide a 4-20mA signal output proportional to the pressure of the medium. Pressure sensors permit to control and guarantee the system working under safe and stability condition.



### Electrical Specification

Model Name	Part Number	Ambient Temperature	Relative Humidity	Medium Temperature TS min / max	Temperature Range for maximum accuracy	Maximum Operating Pressure (MOP) [ Mpa ]
YCQC01L13	10185015201	-40°C / +80°C	from 0 to 95%	-40°C / +80°C	± 0,8 % F.S. in the range -40°C / +80°C	5,25
YCQC03L11	10185014401					7,50
YCQC05L09	10185015301					7,50

### General Characteristics

Model Name	Part Number	Mechanical connection			Voltage Dependency	Pressure Range (0 to pr) [ Mpa ]	Maximum Accuracy
		Type	Pipe Size [inch]	Thread size			
YCQB01L50	10185015201	Thread	SAE - 1/4"	7/16-20UNF-2B	< 0.05% FS/10V	-0,05 to 0,7	± 0,8 % F.S.
YCQB04L50	10185014401	Thread	SAE - 1/4"	7/16-20UNF-2B		0 to 3,0	± 0,8 % F.S.
YCQB05L53	10185015301	Thread	SAE - 1/4"	7/16-20UNF-2B		0 to 4,48	± 0,8 % F.S.

### Accessories

Lead wires cable suitable for connection with YCQB and YCQC equipped with Packard connector. For usage with YCQC models don't connect the white pin.

Model Name	Part Number	Suitable for:	Cable Length (Y)	Terminal
YCQB 02 - 013051	20185014302	All YCQB & YCQC	1500 mm	Lead Wires
YCQB 02 - 013052	20185013102	All YCQB & YCQC	5000 mm	Lead Wires

### Cross Reference

Model Name	Part Number	Type - Output	Alternative
YCQB01L50	10185004201	0,5 to 4,5 DC	Carel - SPKT0013R0
YCQB04L50	10185004201	0,5 to 4,5 DC	Carel - SPKT0033R0
YCQB05L53	10185013401	0,5 to 4,5 DC	Carel - SPKT00B6R
YCQC01L13	10185015201	4-20mA	Carel - SPKT0021D0
YCQC03L11	10185014401	4-20mA	Carel - SPKT0031D0
YCQC05L09	10185015301	4-20mA	Carel - SPKT00B1D0

Further models available on request

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