


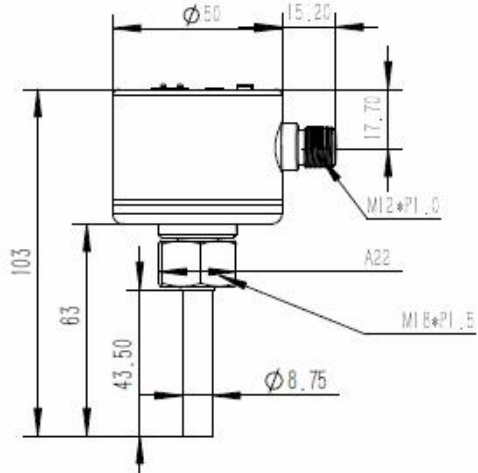
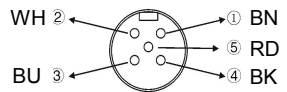
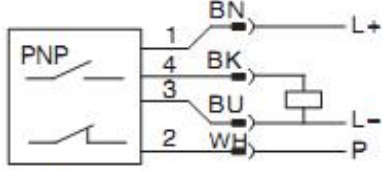
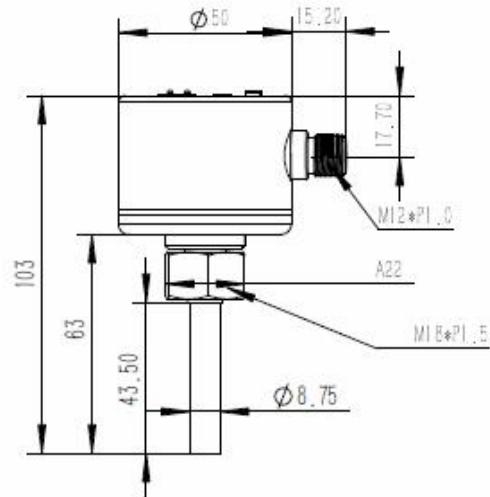


<p>FL6001 Smart Flow Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable M12 socket</p>	
Applications	Liquid and gas
Electric design	PNP NO/NC
Supply voltage[V]	20...36 DC
Output	NO  NC 
Max. overload current[mA]	400
short-circuit protection	Yes
Reverse polarity protection	Yes
Overload protection	Yes
Voltage drop[V]	2.5
Current consumption[mA]	<80
Max. temperature drift[K/min]	300
Pressure resistance[bar]	300
Liquid setting range[cm/S]	3...300
Max sensitivity of range for liquid[cm/S]	3...60
Gas setting range[cm/S]	200...3000
Max sensitivity of range for gas[cm/S]	200...800
Startup time[s]	< 8
Output response time[s]	< 2
Ambient temperature[°C/°F]	-25...80/-13...176
Environment temperature[°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-25...100/-13...212
Protection/Enclosure Rating	IP68
ESD EN61000-4-2	6kV-CD / 8kV-AD
EFT EN61000-4-4	2kV
Surge immunity test EN61000-4-5	1kV
Shock resistance[g]	50
Vibration resistance[g]	20
Upper cover material	Stainless steel316L
Lower cover material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Connection	M12 socket

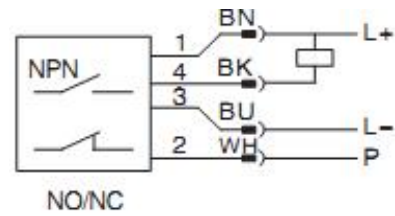
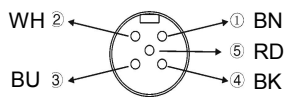
<p>Dimensions[mm]</p>	
<p>Wiring Core color</p> 	 <p>NO/NC NO or NC setting via the menu</p>

FL6002 Smart Flow Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable M12 socket	
Applications	Liquid and gas
Electric design	NPN NO/NC
Supply voltage[V]	20...36 DC
Output	NO  NC 
Max. overload current[mA]	400
short-circuit protection	Yes
Reverse polarity protection	Yes
Overload protection	Yes
Voltage drop[V]	2.5
Current consumption[mA]	<80
Max. temperature drift[K/min]	300
Pressure resistance[bar]	300
Liquid setting range[cm/S]	3...300
Max sensitivity of range for liquid[cm/S]	3...60
Gas setting range[cm/S]	200...3000
Max sensitivity of range for gas[cm/S]	200...800
Startup time[s]	< 8
Output response time[s]	< 2
Ambient temperature[°C/°F]	-25...80/-13...176
Environment temperature[°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-25...100/-13...212
Protection/Enclosure Rating	IP68
ESD EN61000-4-2	6kV-CD / 8kV-AD
EFT EN61000-4-4	2kV
Surge immunity test EN61000-4-5	1kV
Shock resistance[g]	50
Vibration resistance[g]	20
Upper cover material	Stainless steel316L
Lower cover material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel316L
Connection	M12 socket

Dimensions[mm]



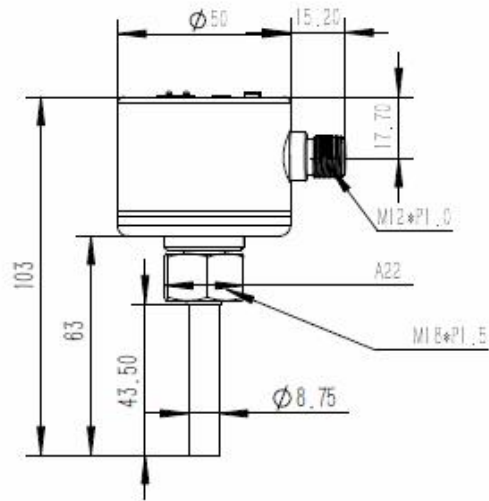
Wiring
 Core color



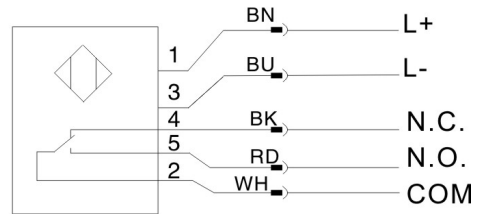
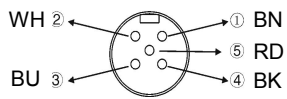
NO or NC setting via the menu

FL6003 Smart Flow Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable M12 socket	
Applications	Liquid and gas
Electric design	DC Relay
Supply voltage[V]	20...36 DC
Output	NO  NC 
Reverse polarity protection	Yes
Max. overload current[mA]	<80
Max. temperature drift[K/min]	300
Pressure resistance[bar]	300
Liquid setting range[cm/S]	3...300
Max sensitivity of range for liquid[cm/S]	3...60
Gas setting range[cm/S]	200...3000
Max sensitivity of range for gas[cm/S]	200...800
Startup time[s]	< 8
Output response time[s]	< 2
Ambient temperature[°C/°F]	-25...80/-13...176
Environment temperature[°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-25...100/-13...212
Protection/Enclosure Rating	IP68
ESD EN61000-4-2	6kV-CD / 8kV-AD
EFT EN61000-4-4	2kV
Surge immunity test EN61000-4-5	1kV
Shock resistance[g]	50
Vibration resistance[g]	20
Upper cover material	Stainless steel316L
Lower cover material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel316L
Connection	M12 socket

Dimensions[mm]

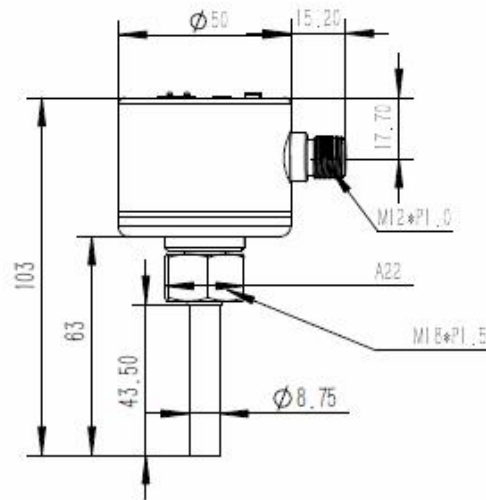


Wiring
 Core color

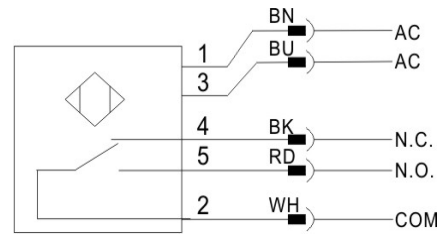
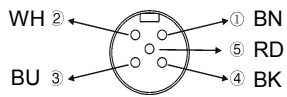


FL6004 Smart Flow Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable M12 socket	
Applications	Liquid and gas
Electric design	AC Relay
Supply voltage[V]	85...265 AC
Output	NO  NC 
Reverse polarity protection	Yes
Max. overload current[mA]	<80
Max. temperature drift[K/min]	300
Pressure resistance[bar]	300
Liquid setting range[cm/S]	3...300
Max sensitivity of range for liquid[cm/S]	3...60
Gas setting range[cm/S]	200...3000
Max sensitivity of range for gas[cm/S]	200...800
Startup time[s]	< 8
Output response time[s]	< 2
Ambient temperature[°C/°F]	-25...80/-13...176
Environment temperature[°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-25...100/-13...212
Protection/Enclosure Rating	IP68
ESD EN61000-4-2	6kV-CD / 8kV-AD
EFT EN61000-4-4	2kV
Shock resistance[g]	50
Vibration resistance[g]	20
Upper cover material	Stainless steel316L
Lower cover material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel316L
Connection	M12 socket

Dimensions[mm]

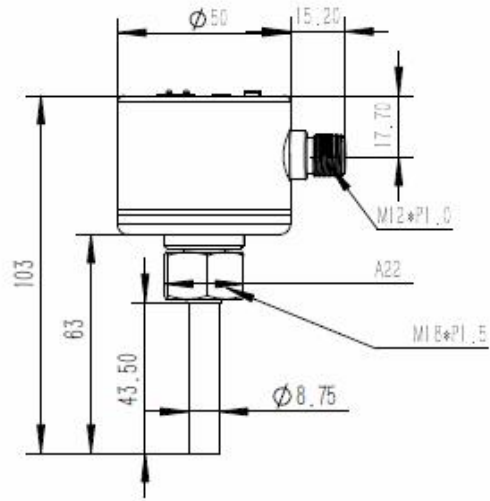


Wiring
 Core color

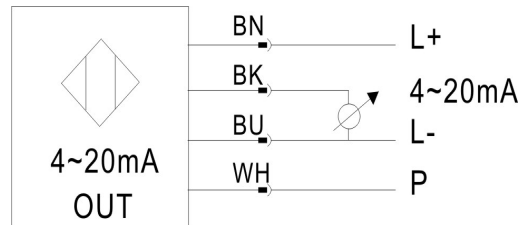
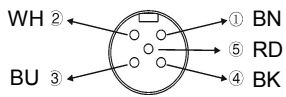











<p>FL6005 Smart Flow Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable M12 socket</p>	
Applications	Liquid and gas
Electric design	4-20mA
Supply voltage[V]	20...36 DC
Output Accuracy	±10% (25 °C in water as a medium for calibration)
Reverse polarity protection	Yes
Max. overload current[mA]	<80
Max. temperature drift[K/min]	300
Pressure resistance[bar]	300
Liquid setting range[cm/S]	3...300
Max sensitivity of range for liquid[cm/S]	3...60
Gas setting range[cm/S]	200...3000
Max sensitivity of range for gas[cm/S]	200...800
Startup time[s]	< 8
Output response time[s]	< 2
Medium temperature[°C/°F]	-25...80/-13...176
Ambient temperature[°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-25...100/-13...212
Protection/Enclosure Rating	IP68
ESD EN61000-4-2	6kV-CD / 8kV-AD
EFT EN61000-4-4	2kV
Surge immunity test EN61000-4-5	1kV
Shock resistance[g]	50
Vibration resistance[g]	20
Upper cover material	Stainless steel316L
Lower cover material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel316L
Connection	M12 socket

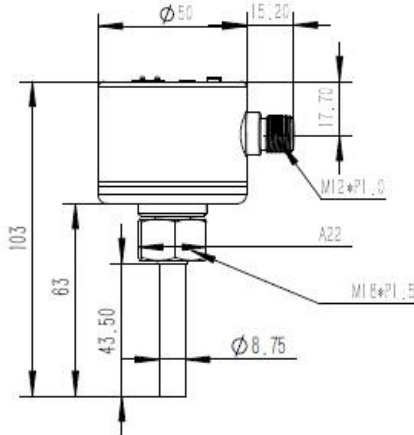
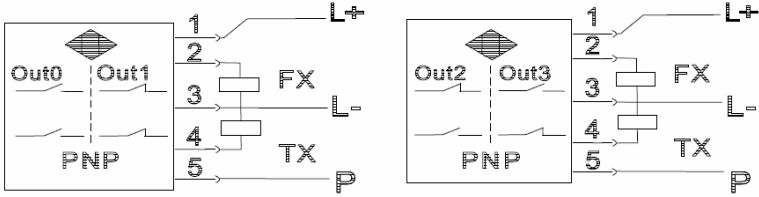
Dimensions[mm]












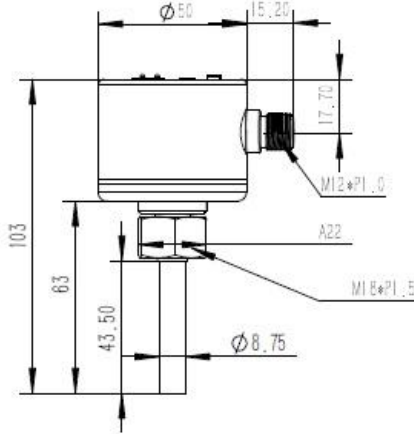
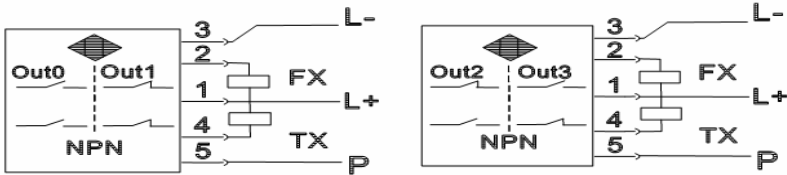
Wiring
 Core color






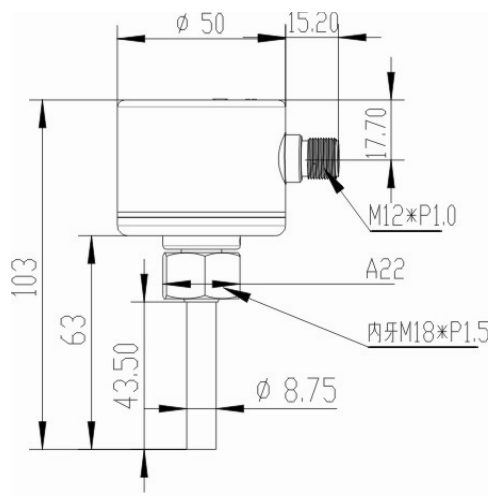
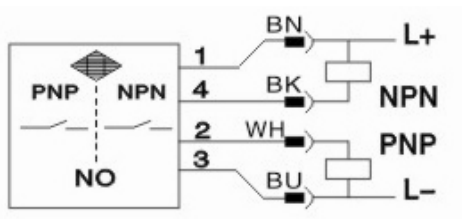
FL6201 Electronic Flow + Temp Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable Switching output 3 digit display M12 socket			
Applications	Liquid and gas		
Electric design	DC 2 x PNP		
Output	Mode	Temperature	Flow
	NO 0	NO 	/NO 
	NO 1	NC 	/NC 
	NO 2	NO 	/NC 
	NO 3	NC 	/NO 
Supply voltage[V]	20...36 DC		
Max. overload current[mA]	2 x 400		
Reverse polarity protection	Yes		
Overload protection	Yes		
Watchdog	Yes		
Voltage drop[V]	2.5		
Current consumption[mA]	<80		
Programming options	Hysteresis range / Window function, Output setting, Calibration, High/Low switching point setting, °C/°F, Unit display, SP setting		
Operating temperature[°C/°F]	-40...150/-40...302		
Accuracy of display[°C/°F]	0.5/1		
Max. temperature drift[K/min]	300		
Pressure resistance[bar]	300		
Liquid temperature[°C/°F]	-25...80/-13...176		
Liquid setting range[cm/S]	3...300		
Max sensitivity of range for liquid[cm/S]	3...60		
Gas temperature[°C/°F]	-25...80/-13...176		
Gas setting range[cm/S]	200...3000		
Max sensitivity of range for gas[cm/S]	200...800		
Startup time[s]	< 8		
Output response time[s]	< 2		
Ambient temperature[°C/°F]	-25...80/-13...176		
Protection/Enclosure Rating	IP68		




<p>Dimensions[mm]</p>	
<p>ESD EN61000-4-2</p>	<p>6kV-CD / 8kV-AD</p>
<p>EFT EN61000-4-4</p>	<p>2kV</p>
<p>Shock resistance[g]</p>	<p>50</p>
<p>Vibration resistance[g]</p>	<p>20</p>
<p>Housing material</p>	<p>Stainless steel 304</p>
<p>Probe material/Wetted Parts</p>	<p>Stainless steel 316L</p>
<p>Function Display</p>	<p>Flow : 10 x 3 colors LED / Temp : 3 digit segment</p>
<p>Connection</p>	<p>M12 socket</p>
<p>Wiring</p>	
<p>Core color</p>	
<p>Pin 1=BN Pin 2=WH Pin 3=BU Pin 4=BK Pin 5=RD</p>	

FL6202 Electronic Flow + Temp Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable Switching output 3 digit display M12 socket			
Applications	Liquid and gas		
Electric design	DC 2 x NPN		
Output	Mode	Temperature	Flow
	NO 0	NO 	/NO 
	NO 1	NC 	/NC 
	NO 2	NO 	/NC 
	NO 3	NC 	/NO 
Supply voltage[V]	20...36 DC		
Max. overload current[mA]	2 x 400		
Reverse polarity protection	Yes		
Overload protection	Yes		
Watchdog	Yes		
Voltage drop[V]	2.5		
Current consumption[mA]	<80		
Programming options	Hysteresis range / Window function, Output setting, Calibration, High/Low switching point setting, °C/°F, Unit display, SP setting		
Operating temperature[°C/°F]	-40...150/-40...302		
Accuracy of display[°C/°F]	0.5/1		
Max. temperature drift[K/min]	300		
Pressure resistance[bar]	300		
Liquid temperature[°C/°F]	-25...80/-13...176		
Liquid setting range[cm/S]	3...300		
Max sensitivity of range for liquid[cm/S]	3...60		
Gas temperature[°C/°F]	-25...80/-13...176		
Gas setting range[cm/S]	200...3000		
Max sensitivity of range for gas[cm/S]	200...800		
Startup time[s]	< 8		
Output response time[s]	< 2		
Ambient temperature[°C/°F]	-25...80/-13...176		
Protection/Enclosure Rating	IP68		

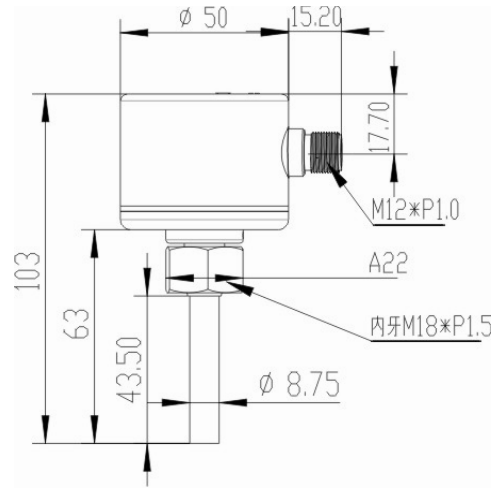
<p>Dimensions[mm]</p>	
<p>ESD EN61000-4-2</p>	<p>6kV-CD / 8kV-AD</p>
<p>EFT EN61000-4-4</p>	<p>2kV</p>
<p>Shock resistance[g]</p>	<p>50</p>
<p>Vibration resistance[g]</p>	<p>20</p>
<p>Housing material</p>	<p>Stainless steel 304</p>
<p>Probe material/Wetted Parts</p>	<p>Stainless steel 316L</p>
<p>Function Display</p>	<p>Flow : 10 x 3 colors LED / Temp : 3 digit segment</p>
<p>Connection</p>	<p>M12 socket</p>
<p>Wiring</p>	
<p>Core color</p> <p>Pin 1=BN Pin 2=WH Pin 3=BU Pin 4=BK Pin 5=RD</p>	

FL6301 Smart Flow Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable M12 socket	
Applications	Liquid and gas
Electric design	PNP/NPN NO
Supply voltage[V]	20...36 DC
Output	NO  NC 
Max. overload current[mA]	400
short-circuit protection	Yes
Reverse polarity protection	Yes
Overload protection	Yes
Voltage drop[V]	2.5
Current consumption[mA]	<40
Max. temperature drift[K/min]	300
Pressure resistance[bar]	300
Liquid setting range[cm/S]	3...300
Max sensitivity of range for liquid[cm/S]	3...60
Liquid SP setting[cm/s]	Adjustable via potentiometer (factory setting:15)
Gas setting range[cm/S]	200...3000
Max sensitivity of range for gas[cm/S]	200...800
Gas SP setting[cm/s]	Adjustable via potentiometer (factory setting:150)
Startup time[s]	< 8
Output response time[s]	< 2
Ambient temperature[°C/°F]	-25...80/-13...176
Environment temperature[°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-25...100/-13...212
Protection/Enclosure Rating	IP68
ESD EN61000-4-2	6kV-CD / 8kV-AD
EFT EN61000-4-4	2kV
Surge immunity test EN61000-4-5	0.5kV
Shock resistance[g]	50
Vibration resistance[g]	20
Upper cover material	Stainless steel316L
Lower cover material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Connection	M12 socket

<p>Dimensions[mm]</p>	
<p>Wiring Core color</p>	

FL6302 Smart Flow Sensor Stainless Steel Housing Seal Plus structure Connection: Internal thread M18 x 1.5 Programmable M12 socket	
Applications	Liquid and gas
Electric design	PNP/NPN NC
Supply voltage[V]	20...36 DC
Output	NO  NC 
Max. overload current[mA]	400
short-circuit protection	Yes
Reverse polarity protection	Yes
Overload protection	Yes
Voltage drop[V]	2.5
Current consumption[mA]	<40
Max. temperature drift[K/min]	300
Pressure resistance[bar]	300
Liquid setting range[cm/S]	3...300
Max sensitivity of range for liquid[cm/S]	3...60
Liquid SP setting[cm/s]	Adjustable via potentiometer (factory setting:15)
Gas setting range[cm/S]	200...3000
Max sensitivity of range for gas[cm/S]	200...800
Gas SP setting[cm/s]	Adjustable via potentiometer (factory setting:150)
Startup time[s]	< 8
Output response time[s]	< 2
Ambient temperature[°C/°F]	-25...80/-13...176
Environment temperature[°C/°F]	-25...80/-13...176
Storage temperature[°C/°F]	-25...100/-13...212
Protection/Enclosure Rating	IP68
ESD EN61000-4-2	6kV-CD / 8kV-AD
EFT EN61000-4-4	2kV
Surge immunity test EN61000-4-5	0.5kV
Shock resistance[g]	50
Vibration resistance[g]	20
Upper cover material	Stainless steel316L
Lower cover material	Stainless steel 304
Probe material/Wetted Parts	Stainless steel 316L
Connection	M12 socket

Dimensions[mm]



Wiring
 Core color

