

# Smart Positioner YT-3301

Model	Motion Type	Acting Type	Explosion Protection	Lever Type		Conduit - Air Connection	Communication	Option	Operating Temp	Cable Length
				Linear	Rotary					
YT-3301	<b>L</b> Linear	<b>S</b> Single	<b>N</b> Non-Explosion	<b>1</b> 10~40mm	<b>5</b> NAMUR	<b>1</b> G1/2 - PT1/4	<b>0</b> NONE	<b>0</b> NONE	<b>S</b> -30°C ~ 85°C	<b>1</b> 5m
	<b>R</b> Rotary	<b>D</b> Double	<b>I</b> ATEX, IECEx, NEPSI, KCs	<b>2</b> 20~70mm		<b>2</b> G1/2 - NPT1/4	<b>2</b> + HART	<b>1</b> + PTM	<b>L</b> -40°C ~ 85°C	<b>2</b> 10m
			<b>A</b> CSA, FM	<b>3</b> 50~100mm		<b>3</b> G1/2 - G1/4				<b>3</b> 15m
				<b>4</b> 100~150mm		<b>4</b> M20 - NPT1/4 *1				<b>4</b> 20m
						<b>5</b> NPT1/2 - NPT1/4				

\*1 M20 is adapter type



YT-3301R Sensor



YT-3301L Sensor

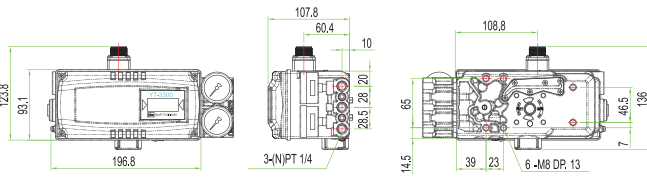
YT-3301 Body



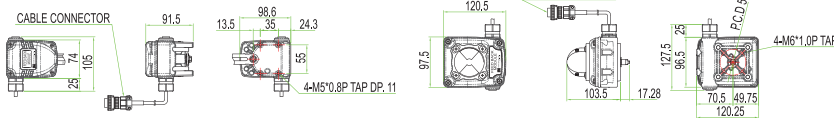
SIL2 / SIL3



Item · Type	YT-3301L	YT-3301R
Input Signal	4~20mA DC	
Supply Pressure	0.14~0.7MPa(1.4~7 bar)	
Stroke	10~150mm	0 ~ 90°
Impedance	Max.500Ω @ 20mA DC	
Air Connection	PT(NPT,G)1/4	
Gauge Connection	PT(NPT)1/8	
Conduit	G(PF,NPT)1/2, M20	
Operating Temp	Sensor Oprating Temp.	-40°C ~ 120°C(-40~248°F)
	Body Oprating Temp.	-30°C ~ 85°C (-22~185°F)
LCD Operating Temp.	-30°C ~ 85°C (-22~185°F)	
Ambient Temp. of Explosion Proof	-40~60°C(T5) / -40~40°C(T6)	
Linearity	±0.5% F.S.	
Hysteresis	±0.5% F.S.	
Sensitivity	±0.2% F.S.	
Repeatability	±0.3% F.S.	
Air Consumption	Below 2LPM (sup=0.14MPa)	
Flow Capacity	70LPM (sup=0.14MPa)	
Output Characteristics	Linear, EQ%, Quick Open user set (16 Point)	
Material	Aluminum Diecasting	
Ingress Protection	IP66	
Explosion Protection Type	ATEX, IECEx Ex ia IIC T5/T6 Gb, Ex iaD IIIC T100°C/T85°C Db IP66 NEPSI Ex ia IIC T5/ T6 KCs Ex ia IIC T5/T6, EX iaD IIIC T100°C/T85°C CSA Pending FM Class I, Div 1, Groups ABCD Class I, Zone 0 AEx ia IIC Class II/III, Div 1, Groups EFG Class I, II, III, Div 2, Groups ABCDEFG NEMA Type 4 IP66 AMBIENT TEMP: -40°C ~ 60°C (T5) / -40°C ~ 40°C (T6)	
Communication(Optional)	HART(ver.7)	
Weight	Body	2kg (4.4lb)
	Sensor	0.6kg (1.3lb)    0.9kg (2.0lb)



YT-3301 Body



YT-3301L Sensor

YT-3301R Sensor

YT-3301 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Separated feedback module
- Auto calibration
- LCD display
- Auto/Manual switch
- PID control
- Feedback signal
- HART communication
- 4 buttons for local control