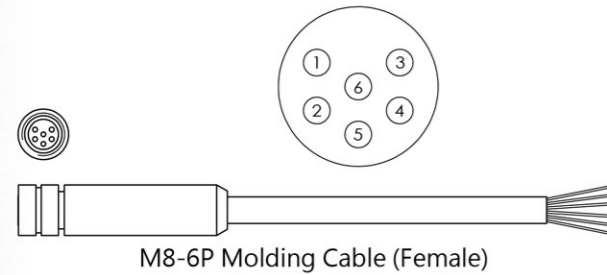
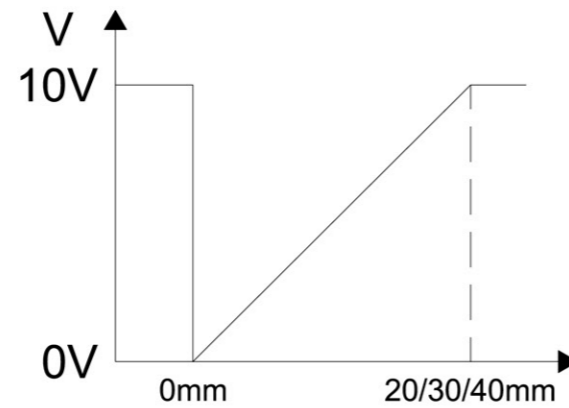


Cable Pin (Color) Definition

No.	Color	Function
1	Brown	24V Power Input
2	Red	Sensor Error Signal Output
3	White	Reserved
4	Blue	0V
5	Black	Analog Voltage Output
6	Orange	Dog Width Selection Input (DWSI) Off : 6mm Detected Object On : 12mm Detected Object



Analog Output Standard Curve

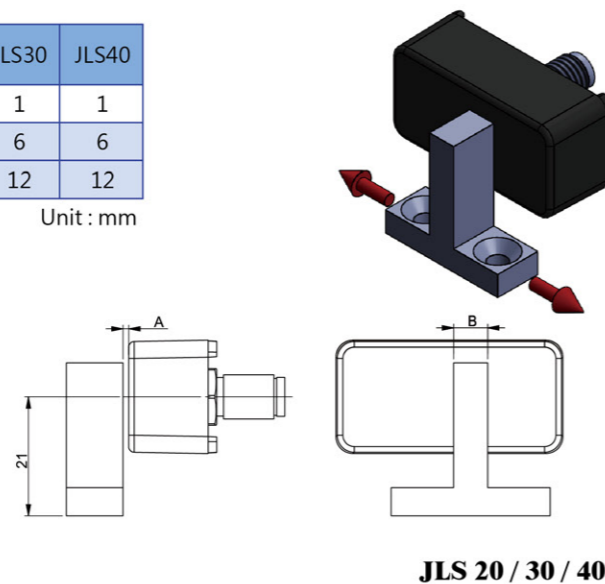


※ DWSI=Off : JLS20@16mm
DWSI=On : JLS20@20mm

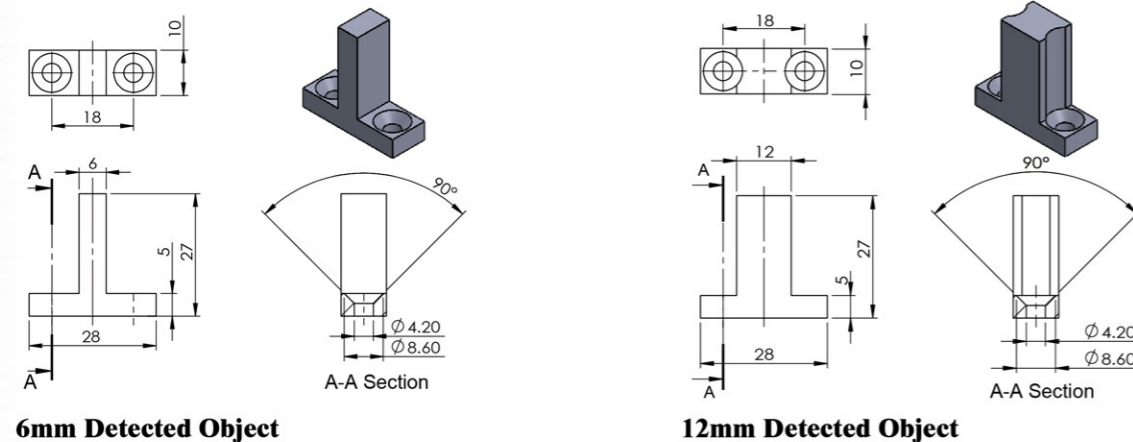
Recommended Installation & Width of Detected Object (mm)

	JLS20	JLS30	JLS40
A : Recommended Measuring Range	1	1	1
B : Recommended Width of Detected Object	DWSI : Off	6	6
	DWSI : On	12	12

Unit : mm



Detected Object Material : S45C Electroless Nickel Plating



LINEAR POSITIONING SYSTEM

JLS Series

Majorly applied for position of lathes chuck & spindle clamp / unclamp detection , or other non-contact position sensing application.

It can be adjusted by controller to set three measuring-range outputs via external teach-in , to ensure the correctness of detected subject position.

Features

- Inductance , non-contact detector , high accuracy , stability & linearity
- Repeated accuracy of position detection is $\pm 100\mu\text{m}$
- Controller displays & sets measuring range (max. four channels)
- Analog voltage output 0~10V
- Provide three sensing strokes (20mm , 30mm & 40mm)
- Detected object of 6 & 12mm for option
- Light & exquisite sensor , space-saving for mechanism planning



Specification

	Sensor	Controller (V1 / I1 , V2 / I2)
Electrical	Voltage	DC 15~30V
	Current Consumption	20mA
	Short Circuit & Reverse Polarity	Yes
	Max. Linear Deviation	$\pm 250\mu\text{m}$ (JLS20) $\pm 500\mu\text{m}$ (JLS30 / JLS40)
	Repeated Accuracy	$\pm 100\mu\text{m}$
	Ultimate Max. Temperature Drift	$\pm 3\%$
	Interface	Analog Voltage 0~10V
	Sensing Stroke	20mm / 30mm / 40mm
	Sensing Distance	0.5mm~1.5mm (Recommended : 1mm)
	Width of Detected Object	DWSI=Off : 5mm~8mm (Recommended : 6mm) DWSI=On : 9mm~14mm (Recommended : 12mm)
Mechanical	Material	Plastic & Metal
	Connection Port (Backend)	M8-6P (Male) Plug
	Cable (Backend)	$\varnothing 5$, 6wires, 26AWG
	Locking Torque	2.5Nm
Environmental	Weight	<60g
	Protection	IP67
	Operation Temperature	-10°C / +70°C
	Operation Humidity	35% / 85%
	Storage Temperature	-25°C / +85°C (w / o condensation)
	Storage Humidity	35% / 85%
	Vibration	55Hz 1.5mm X, Y, Z each direction 2h
Shock	50G X, Y, Z each direction 3 times	



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Ordering Information

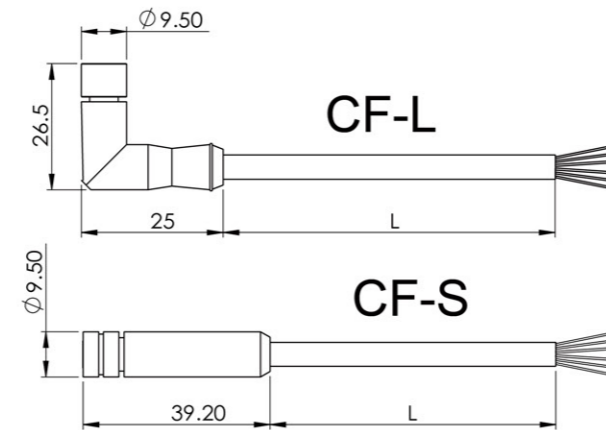
JLS	30	V2	A
SERIES NAME	SENSOR MEASURING RANGE	CONTROLLER	SETTING ADAPTER
JLS	20 20mm 30 30mm 40 40mm	V1 Con-V V2 Con-V N None	A Adapter N None

※ Con-V : Voltage-Controller

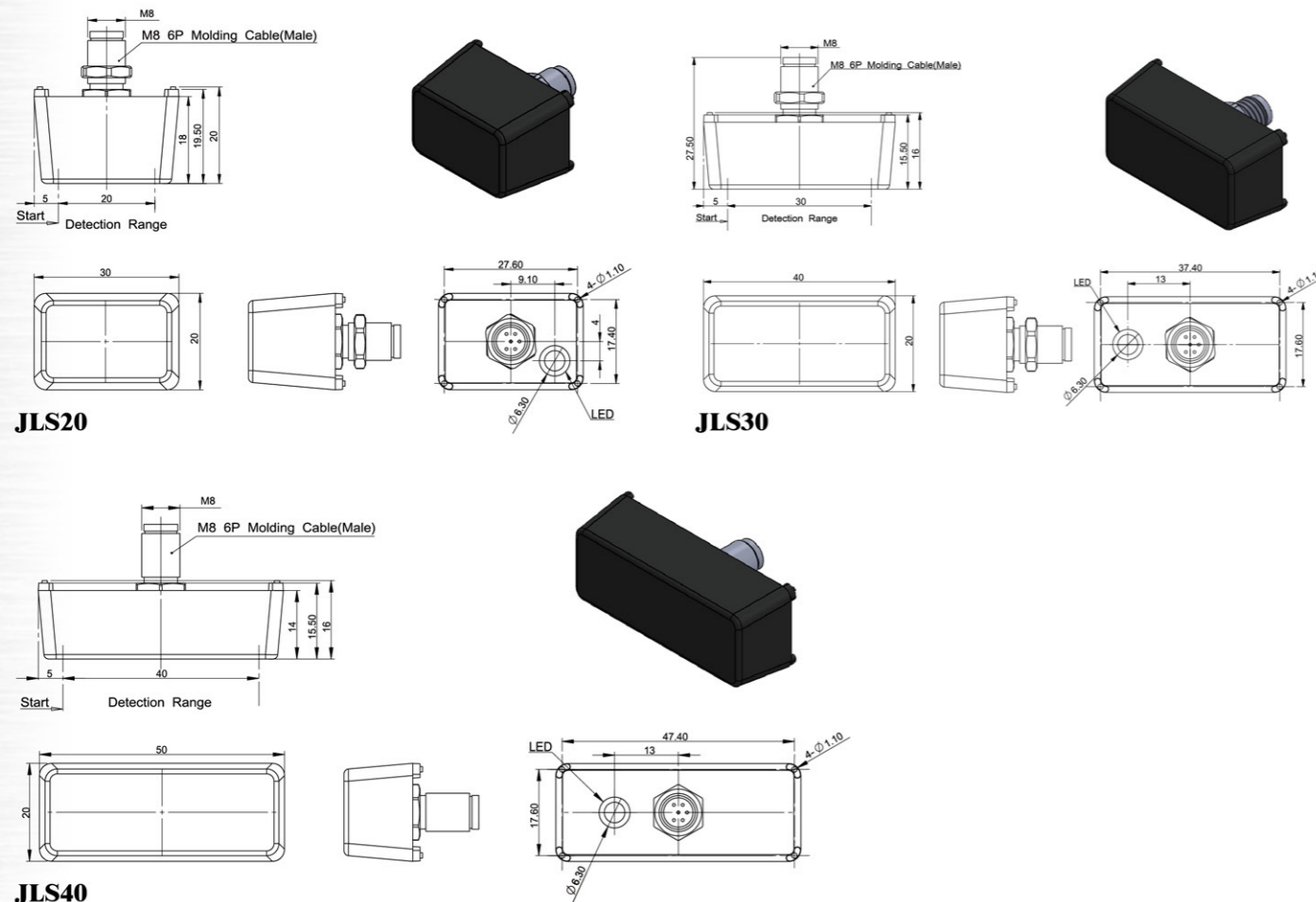
Cable Ordering Information

CF	L	050
SERIES NAME	OUTLET ANGLE	LENGTH
CF Female Connector	L 90° S 180°	030 3M 050 5M 075 7.5M 100 10M 150 15M

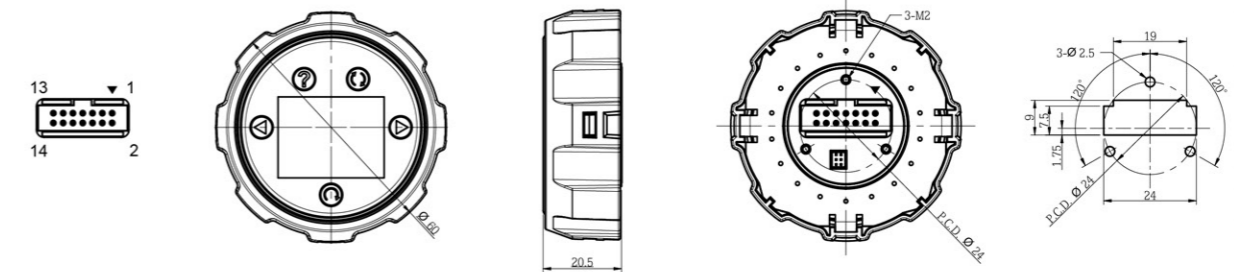
Cable External Dimensions (mm)



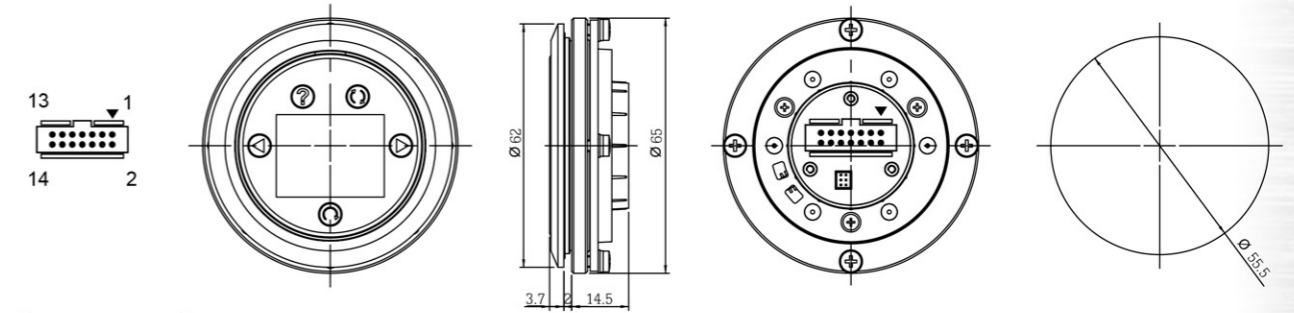
Sensor External Dimensions (mm)



Controller Pin Definition / External Dimensions & Cutout (mm)



Controller : V1



Controller : V2

No.	Function	No.	Function
1	24V Power Input	2	0V (Voltage Reference Level)
3	Controller Teach-in Position Signal Input	4	Chuck Reverse Signal Input
5	Sensor Error Signal Input	6	Controller Teach-in P2 Position Signal Input
7	P1 Output	8	P2 Output
9	P3 Output	10	P4 Output
11	Analog Voltage Input	12	Analog Voltage Common GND
13	Sensor Common GND	14	Analog Voltage Common GND

e.g.

P1 Output : Chuck / Spindle
Unclamp Output

P2 Output : Chuck / Spindle Clamp
w/ Workpiece Output

P3 Output : Chuck / Spindle Clamp
w/o Workpiece Output

P4 Output : Reserved

Setting Adapter Pin Definition & External Dimensions (mm)

Connector	Function
TB1	24V Power Input
TB2	Sensor Power Source & Analog Voltage Input
TB3	Controller Signal Input
TB4	24V Power Output
TB5	24V Power Output
TB6	Controller Signal Output
J1	Flat Cable Connected w/ Controller

