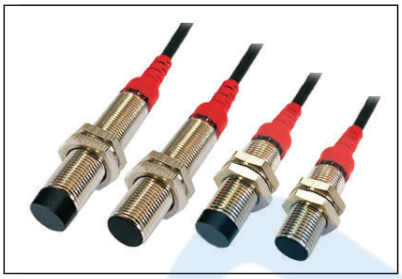
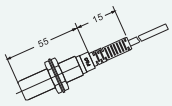
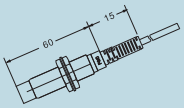
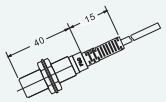
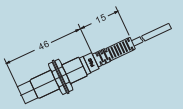
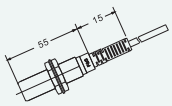
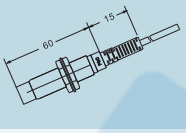
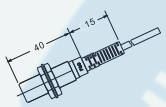
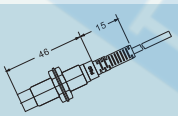
M12 proximity sensor



Features:

- 360 degree LED indicator.
- Optional screw length and sensing distance.
- Stainless steel shell, strong power of anti-interference..
- DC 12 to 24V power supply with built-in amplifier.
- High bending performance, protective sleeves design in the wiring port.

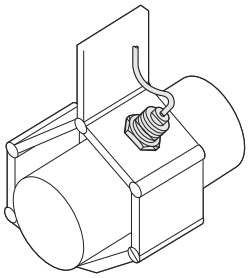
Procurement guide:

Category	Model	Out Put Method	Detection Distance	Standard Detection	Entry Cable
	F3C-12KS02-N R2M F3C-12KS02-N2 R2M F3C-12KS02-P R2M F3C-12KS02-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 2mm 0~1.6mm (Stable detection range)	12×12×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable M12 connector
	F3C-12KN04-N R2M F3C-12KN04-N2 R2M F3C-12KN04-P R2M F3C-12KN04-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 4mm 0~3.2mm (Stable detection range)	12×12×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable M12 connector
	F3C-12ES02-N R2M F3C-12ES02-N2 R2M F3C-12ES02-P R2M F3C-12ES02-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 2mm 0~1.6mm (Stable detection range)	12×12×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable M12 connector
	F3C-12EN04-N R2M F3C-12EN04-N2 R2M F3C-12EN04-P R2M F3C-12EN04-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 4mm 0~3.2mm (Stable detection range)	12×12×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable
	F3L-12KS04-N R2M F3L-12KS04-N2 R2M F3L-12KS04-P R2M F3L-12KS04-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 4mm 0~3.2mm (Stable detection range)	12×12×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable M12 connector
	F3L-12KN08-N R2M F3L-12KN08-N2 R2M F3L-12KN08-P R2M F3L-12KN08-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 8mm 0~6.4mm (Stable detection range)	24×24×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable M12 connector
	F3L-12ES04-N R2M F3L-12ES04-N2 R2M F3L-12ES04-P R2M F3L-12ES04-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 4mm 0~3.2mm (Stable detection range)	12×12×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable M12 connector
	F3L-12EN08-N R2M F3L-12EN08-N2 R2M F3L-12EN08-P R2M F3L-12EN08-P2 R2M	NPN.NO NPN.NC PNP.NO PNP.NC	(Maximum detection range) 8mm 0~6.4mm (Stable detection range)	24×24×1	Φ4×2M/3-wires M8 connector with 150mm pre-wire cable M12 connector

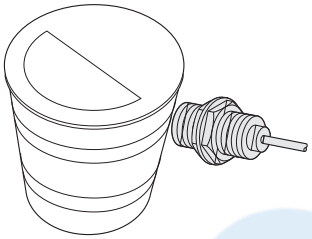
Note: /D=M12 connector /15D= M8 connector with 150mm pre-wire cable
2-wires and 5V DC can be customized

M12 proximity sensor

Detection of mechanical components of the hands



Detection of aluminum cap

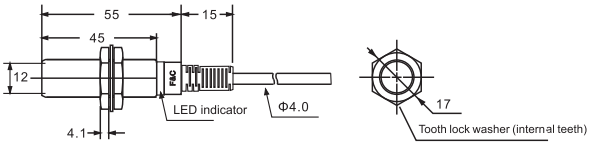


Specifications \ Model	Standard Head Shield	Standard Head Non-shield	Short Head shield	Short Head Non-shield
Haplotype distance	F3C-12KS02-N R2M F3C-12KS02-N2 R2M F3C-12KS02-P R2M F3C-12KS02-P2 R2M	F3C-12KN04-N R2M F3C-12KN04-N2 R2M F3C-12KN04-P R2M F3C-12KN04-P2 R2M	F3C-12ES02-N R2M F3C-12ES02-N2 R2M F3C-12ES02-P R2M F3C-12ES02-P2 R2M	F3C-12EN04-N R2M F3C-12EN04-N2 R2M F3C-12EN04-P R2M F3C-12EN04-P2 R2M
Double distance	F3L-12KS04-N R2M F3L-12KS04-N2 R2M F3L-12KS04-P R2M F3L-12KS04-P2 R2M	F3L-12KN08-N R2M F3L-12KN08-N2 R2M F3L-12KN08-P R2M F3L-12KN08-P2 R2M	F3L-12ES04-N R2M F3L-12ES04-N2 R2M F3L-12ES04-P R2M F3L-12ES04-P2 R2M	F3L-12EN08-N R2M F3L-12EN08-N2 R2M F3L-12EN08-P R2M F3L-12EN08-P2 R2M
Scanning distance	2mm	4mm	2mm	4mm
Recommened distance	1.6mm	3.2mm	1.6mm	3.2mm
Scanning distance	4mm	8mm	4mm	8mm
Recommened distance	3.2mm	6.4mm	3.2mm	6.4mm
Standard sensing object	12×12×1 24×24×1 (iron)			
Response Frequency	800Hz			
Hysteresis	≤10%			
Operating voltage	12~24VDC 10%			
Current consumption	＜10 mA No-load			
Load current	24V 100mA MAX			
Protection circuit	Reversed supply circuit protection, short circuit protection output			
Residual voltage	＜1. 0VDC			
Operating temperature	-25℃～+70℃			
Material	PBT			
Wiring method	Φ4×2M/3-wires			
Protection degree	IP67			

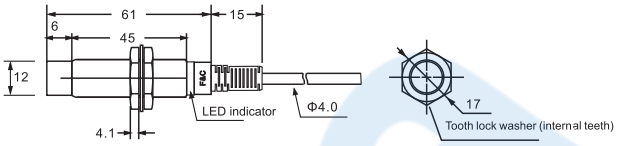
M12 proximity sensor

Wire type:

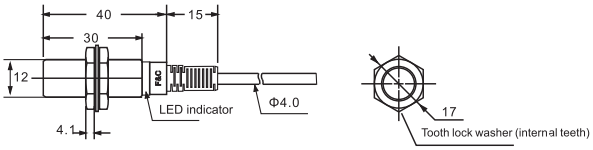
F3C-12KS02-N R2M(N2/P/P2)



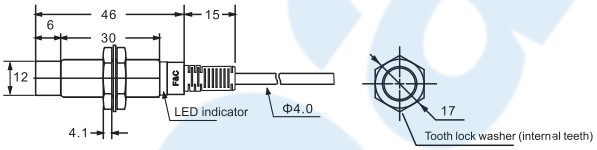
F3C-12KN04-N R2M(N2/P/P2)



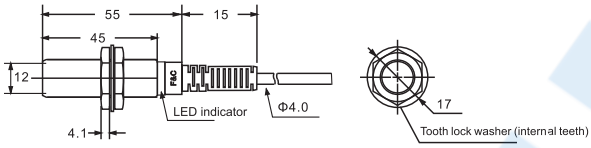
F3C-12ES02-N R2M(N2/P/P2)



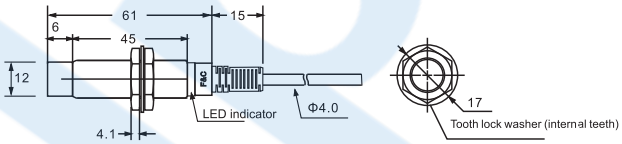
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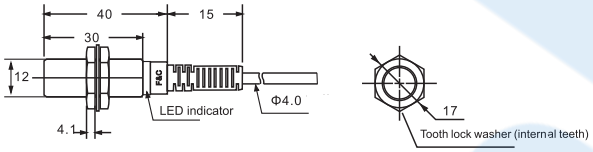
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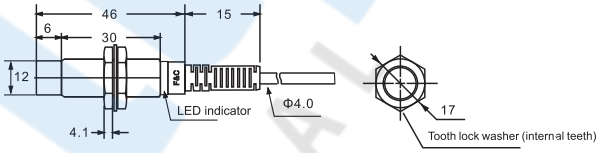
F3L-12KN08-N R2M(N2/P/P2)



F3L-12ES04-N R2M (N2/P/P2)

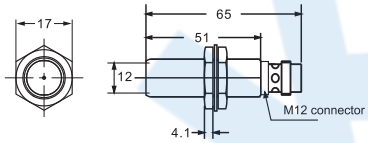


F3L-12EN08-N R2M(N2/P/P2)

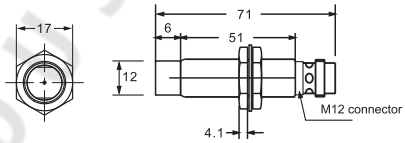


Connector type:

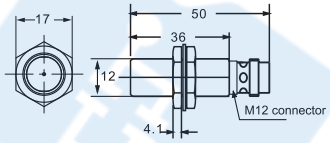
F3C-12KS02-N/D R2M(N2/P/P2)



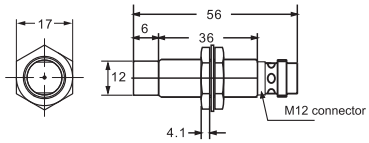
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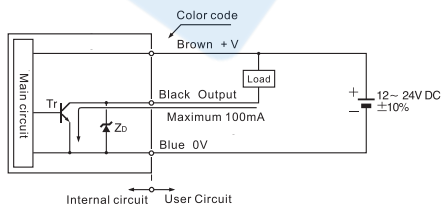
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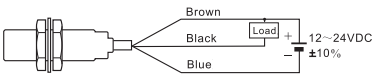


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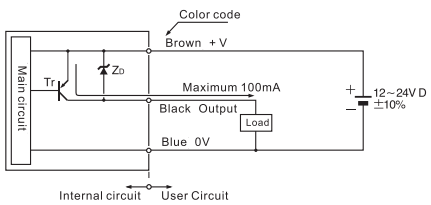


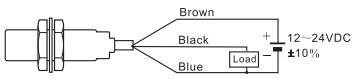
NPN. NO/NPN. NC

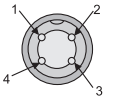




PNP. NO/PNP. NC







1.
2.12~24VDC
3. Output control
4.0V