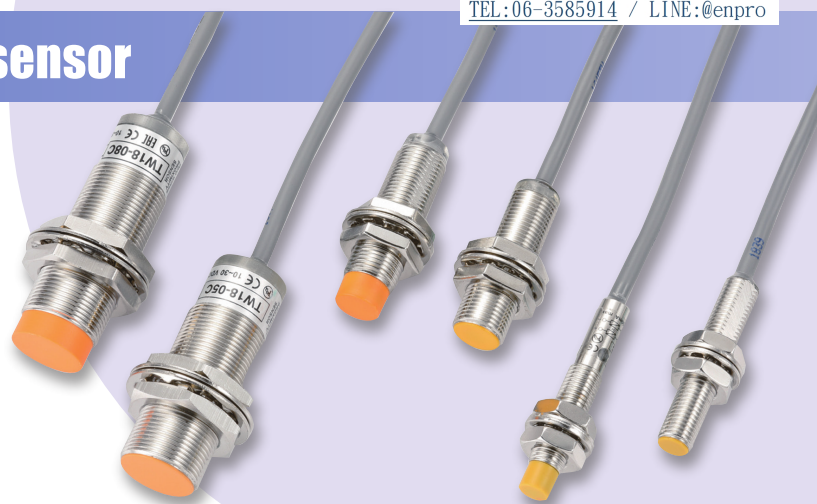


Two wires Inductive Proximity sensor

TW series

兩線式 近接感應器

- High reliability with 「short-circuit」 & 「Polarity reversed」 protection circuit.
全機種附「短路保護」及「極性保護」回路
- Low leakage current : 0.8mA max.
洩漏電流小於「0.8mA」
- Protection class : IP-67
防水等級：「IP-67」
- Positive or Negative connection are available
可適用「正輸出」或「負輸出」接線法



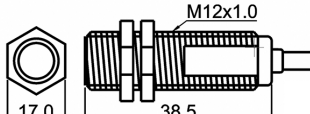
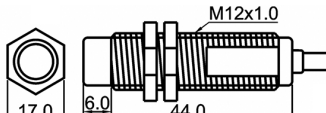
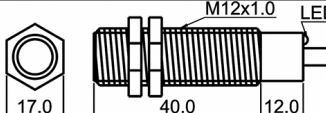
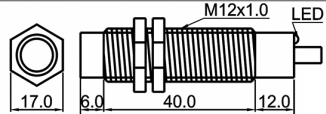
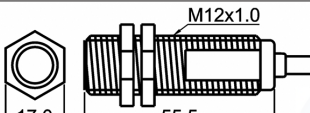
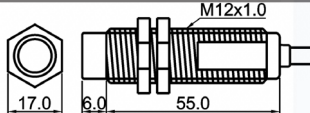
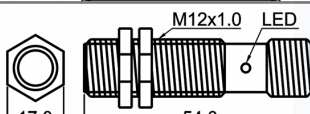
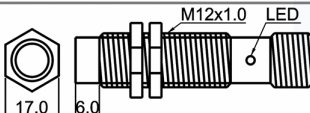
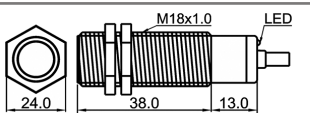
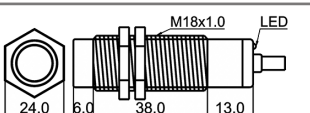
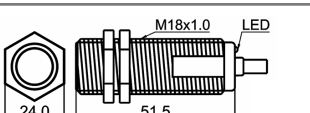
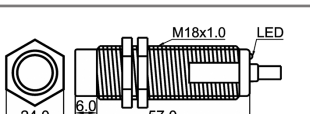
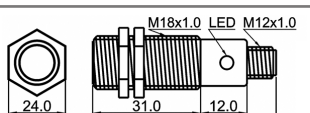
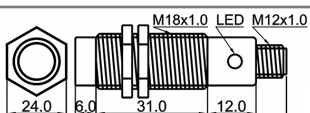
General data / 共同規格

Specification	規格	Data	Connection diagram / 接線圖
Operating voltage	工作電壓	10 ~ 30 VDC	
Power ripple	電源漣波	< 20% of Vp-p	
Hysteresis	應差	< 10% of sensing distance	
Leakage current	洩漏電流	0.8mA max.	
Residual voltage	殘留電壓	4.0V max.	
Output current	輸出電流	5.0 ~ 150 mA max.	
Protection circuit	保護電路	Short-circuit & Polarity reversed protection circuit.	
Connection method	接線方式	2cores/4φ or M12 connector or M8 lead wire	
Housing material	外殼材質	Cu plated Ni or PBT or SUS-304	
Protection class	保護等級	IP-67	
Operating temperature	工作溫度	- 25℃ ~ +80℃	
Operating humidity	工作濕度	35% ~ 95% RH	

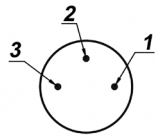
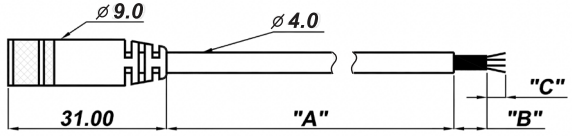
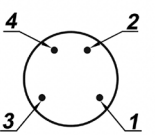
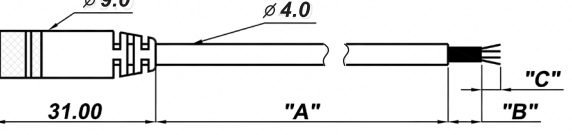
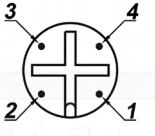
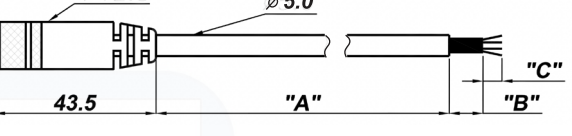
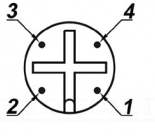
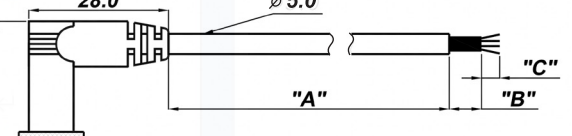
Specification / 規格

Outline	Model	Output status	Sensing distance	Mounting method	Response frequency	Operating voltage	Connection method	Housing material
	TW08-01C	NO	1.0 mm	Flushed	2.0kHz	10 ~ 30 VDC	Lead wire	Cu plated Ni
	TW08-01CB	NC						
	TW08-02C	NO	2.0 mm	Non flushed	2.0kHz	10 ~ 30 VDC	Lead wire	Cu plated Ni
	TW08-02CB	NC						
	TW08-01CE	NO	1.0 mm	Flushed	2.0kHz	10 ~ 30 VDC	Lead wire	Cu plated Ni
	TW08-01CBE	NC						
	TW08-02CE	NO	2.0 mm	Non flushed	2.0kHz	10 ~ 30 VDC	Lead wire	Cu plated Ni
	TW08-02CBE	NC						

● Specification / 規格

Outline	Model	Output status	Sensing distance	Mounting method	Response frequency	Operating voltage	Connection method	Housing material			
	TW12-02CSE	NO	2.0 mm	Flushed	1.0KHz	10~30 VDC	Lead wire	Cu plated Ni			
	TW12-02CBSE	NC									
	TW12-04CSE	NO	4.0 mm	Non flushed	800Hz	10~30 VDC	Lead wire	Cu plated Ni			
	TW12-04CBSE	NC									
	TW12-02C	NO	2.0 mm	Flushed	1.0KHz	10~30 VDC	Lead wire	Cu plated Ni			
	TW12-02CB	NC									
	TW12-04C	NO	4.0 mm	Non flushed	800Hz	10~30 VDC	Lead wire	Cu plated Ni			
	TW12-04CB	NC									
	TW12-02CE	NO	2.0 mm	Flushed	1.0KHz	10~30 VDC	Lead wire	Cu plated Ni			
	TW12-02CBE	NC	2.0 mm		500Hz						
	TW12E-05CE	NO	5.00 mm	Non flushed	800Hz						
	TW12E-05CBE	NC	5.00 mm		500Hz						
	TW12-04CE	NO	4.0 mm	Non flushed	800Hz	10~30 VDC	Lead wire	Cu plated Ni			
	TW12-04CBE	NC	4.0 mm		500Hz						
	TW12E-08CE	NO	8.00 mm	Non flushed	500Hz						
	TW12E-08CBE	NC	8.00 mm								
	TW12-02C-M12	NO	2.0 mm	Flushed	1.0KHz	10~30 VDC	M12 connector	Cu plated Ni			
	TW12-02CB-M12	NC									
	TW12-04C-M12	NO	4.0 mm	Non flushed	800Hz	10~30 VDC	M12 connector	Cu plated Ni			
	TW12-04CB-M12	NC									
	TW18-05C	NO	5.0 mm	Flushed	500Hz	10~30 VDC	Lead wire	Cu plated Ni			
	TW18-05CB	NC	5.0 mm		250Hz						
	TW18E-10C	NO	10.0 mm	Non flushed	400Hz						
	TW18E-10CB	NC	10.0 mm		200Hz						
	TW18-08C	NO	8.0 mm	Non flushed	400Hz	10~30 VDC	Lead wire	Cu plated Ni			
	TW18-08CB	NC	8.0 mm		200Hz						
	TW18E-16C	NO	16.0 mm	Non flushed	400Hz						
	TW18E-16CB	NC	16.0 mm		200Hz						
	TW18-05CE	NO	5.0 mm	Flushed	500Hz	10~30 VDC	Lead wire	Cu plated Ni			
	TW18-05CBE	NC	5.0 mm		250Hz						
	TW18E-10CE	NO	10.0 mm	Non flushed	400Hz						
	TW18E-10CBE	NC	10.0 mm		200Hz						
	TW18-08CE	NO	8.0 mm	Non flushed	400Hz	10~30 VDC	Lead wire	Cu plated Ni			
	TW18-08CBE	NC	8.0 mm		200Hz						
	TW18E-16CE	NO	16.0 mm	Non flushed	400Hz						
	TW18E-16CBE	NC	16.0 mm		200Hz						
	TW18-05C-M12	NO	5.0 mm	Flushed	500Hz	10~30 VDC	M12 connector	Cu plated Ni			
	TW18-05CB-M12	NC									
	TW18-08C-M12	NO	8.0 mm	Non flushed	400Hz	10~30 VDC	M12 connector	Cu plated Ni			
	TW18-08CB-M12	NC									

● M8 & M12 lead wire cable/ M8 & M12 接頭線

Model	Outline														
M8-3C-□m	<table><tr><th>4P PLUG</th><th>COLOR</th></tr><tr><td>1</td><td>BROWN</td></tr><tr><td>2</td><td>BLACK</td></tr><tr><td>3</td><td>BLUE</td></tr></table>	4P PLUG	COLOR	1	BROWN	2	BLACK	3	BLUE						
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3	BLUE														
<table><tr><th>規格</th><th>"A"</th><th>"B"</th><th>"C"</th></tr><tr><td>M8-3m</td><td>3m</td><td>50+3mm</td><td>5+1mm</td></tr><tr><td>M8-5m</td><td>5m</td><td>50+3mm</td><td>5+1mm</td></tr></table>	規格	"A"	"B"	"C"	M8-3m	3m	50+3mm	5+1mm	M8-5m	5m	50+3mm	5+1mm			
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M8-3m	3m	50+3mm	5+1mm												
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M8-4C-□m	<table><tr><th>4P PLUG</th><th>COLOR</th></tr><tr><td>1</td><td>BROWN</td></tr><tr><td>2</td><td>WHITE</td></tr><tr><td>3</td><td>BLUE</td></tr><tr><td>4</td><td>BLACK</td></tr></table>	4P PLUG	COLOR	1	BROWN	2	WHITE	3	BLUE	4	BLACK				
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M8-3m	3m	50+3mm	5+1mm												
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M12-4C-□m	<table><tr><th>4P PLUG</th><th>COLOR</th></tr><tr><td>1</td><td>BROWN</td></tr><tr><td>2</td><td>WHITE</td></tr><tr><td>3</td><td>BLUE</td></tr><tr><td>4</td><td>BLACK</td></tr></table>	4P PLUG	COLOR	1	BROWN	2	WHITE	3	BLUE	4	BLACK				
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<table><tr><th>規格</th><th>"A"</th><th>"B"</th><th>"C"</th></tr><tr><td>M12-L3m</td><td>3m</td><td>50+3mm</td><td>5+1mm</td></tr><tr><td>M12-L5m</td><td>5m</td><td>50+3mm</td><td>5+1mm</td></tr></table>	規格	"A"	"B"	"C"	M12-L3m	3m	50+3mm	5+1mm	M12-L5m	5m	50+3mm	5+1mm			
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