

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and rounded, with a consistent blue color throughout. The logo is centered horizontally within a light yellow rectangular background.

Automatización Eléctrica
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#). [HERE](#)



Flat shape inductive sensor in compact plastic housing

The TL-W family offers a wide range of block style inductive sensors for simple mounting on flat surfaces. With sensing distances from 1.5 mm to 20 mm the TL-W is the ideal solution for all standard applications.

- IP67
- DC 2-wire and DC 3-wire models
- Sensing distances from 1.5 mm to 20 mm
- Side facing sensing face

Ordering information

DC 2-wire

Size in mm (HxWxD)			Sensing distance	Order code (for pre-wired types with 2 m PVC cable)	
				Operation mode normally open (NO)	Operation mode normally closed (NC)
31x18x10	–	■	5 mm	TL-W5MD1	TL-W5MD2

DC 3-wire

Size in mm (HxWxD)			Sensing distance	Order code (for pre-wired types with 2 m PVC cable)			
				PNP-NO	PNP-NC	NPN-NO	NPN-NC
25x8x5	–	■	1.5 mm	TL-W1R5MB1	–	TL-W1R5MC1	–
22x8x6	–	■	3 mm	TL-W3MB1	TL-W3MB2	TL-W3MC1	TL-W3MC2
31x18x10			5 mm	TL-W5MB1	TL-W5MB2	TL-W5MC1	TL-W5MC2
53x40x23			20 mm	–	–	TL-W20ME1	TL-W20ME2
31x18x10	■	–	5 mm	TL-W5F1	TL-W5F2	TL-W5E1	TL-W5E2

Specifications

Item	TL-W5MD_	TL-W1R5M_1	TL-W3M_	TL-W5M_	TL-W5E_/F_	TL-W20ME_
Sensing distance	5 mm ±10%	1.5 mm ±10%	3 mm ±10%	5 mm ±10%		20 mm ±10%
Response frequency	500 Hz	1 kHz min.	600 Hz min.	500 Hz min.	300 Hz min.	40 Hz min.
Power supply voltage (operating voltage)	12 to 24 VDC (10 to 30 VDC) ripple (p-p): 10% max.				10 to 30 VDC with a ripple (p-p) of 20% max.	12 to 24 VDC (10 to 30 VDC) ripple (p-p): 10% max.
Protective circuits	Surge absorber; short-circuit protection		Surge suppressor; power supply reverse polarity protection			
Ambient temperature	-25 to 70°C (with no icing or condensation)					
Degree of protection	IEC60529 IP67					
Material	Case	Heat-resistant ABS resin			Diecast aluminum	Heat-resistant ABS resin
	Sensing surface	Heat-resistant ABS resin				

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

Product	Code	Reference	Product link
Temperature and Process Univ 4 Alarms Ent 2 Salt SSR / Current 4 Evt HBA 48x96 100-240Vac	374757	E5AC-CQ4A5M-010	Buy on EAN
Industrial Career Final / Push buttons, selector Rectan 2 yellow hand positions	160728	A165W-J2MY	Buy on EAN
	134676	D4B-1515N	Buy on EAN
	131596		Buy on EAN
	231083	H3CR-H8RL AC200-240 S	Buy on EAN
	240409	MKS3PIN AC100	Buy on EAN