

Two families for all oil conditions

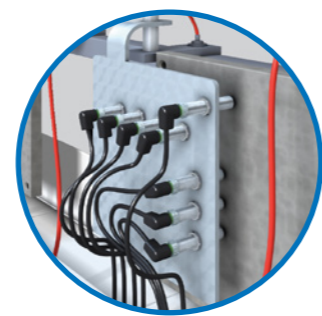
E2FM and E2B proximity sensors



- From oil-mist to oil-jet environments
- Enhanced mechanical & chemical resistance
- Complete range for all your machine needs

The right sensor - always

Not all proximity sensors on your machine need to withstand very harsh conditions – but some do. That’s why we provide very tough sensors and not-so-tough sensors. So you pay only for what you need. Ideal for drilling machines, turning lathes and pressing machines.



E2B
Non- Processing environment



E2FM
Processing environment



E2B for oil-mist environments

70% of all your machine needs

The E2B is a complete range and comes in standard sizes M8(SUS), M12, M18, M30 with single and double sensing distances. Also, full choice of NPN, PNP, NO, NC. Ideal for outside processing room.

Resistance to highly concentrated oil-mist

Water resistant to IP67. Oil-mist simulation tests showed successful operation in a diluted cutting oil-mist for 250 hours at 23°C, with no noticeable degradation.

Easy diagnostics

A full circle 360° LED provides highly visible operation mode indicator.

Easy to re-order and replace

Laser printed part number on base of cable ensures fast and easy ordering and replacement

PUR cable

Suitable for applications with oil-mist and without permanent contact with oil.

E2FM for permanent contact with oil and metal chips

20 times longer life

The 0.8mm thick stainless steel sensing surface can be cleaned with a metal brush and still last typically 20 times longer than conventional stainless steel faces.

Chemical and oil-resistant

Proven resistance against mineral oils and chemicals commonly used in the automotive and machine tool industries.

Low frequency modulation

Optimized frequency oscillation ensures signal

reliability even when small metal chips build up on sensing surface – so less cleaning is necessary.

Impact resistant

A standard sensor with top wall thickness of 0.2mm was penetrated after 10,000 impact cycles. The E2FM was not penetrated, even after 250,000 impacts

Polypropylene cable

Comes with the Y92E-PP cable for direct and permanent contact with oil, coolant and most other aggressive chemicals.

Ordering Information

E2B and E2FM



Pre-wired Connector types

Size	Shielded	Non-shielded	Sensing distance	Output configuration	Order code	
					Operation mode NO	Operation mode NC
M12	■	–	4.0 mm	PNP	E2B-M12KS04-M1-B1	E2B-M12KS04-M1-B2
	–	■	8.0 mm	PNP	E2B-M12KN08-M1-B1	E2B-M12KN08-M1-B2



DC 3- and 2-wire pre-wired Connector models

Appearance	Sensing distance	Output configuration	Operation mode	Model
M18	5.0 mm	Polarity: Yes, Pin allocations: 1-4	NO	E2FM-X5D1-M1GJ
		DC 3-Wire, PNP		E2FM-X5B1-M1



XS2F-M12PVC4

Size	Cable material	Features	Shape	Length	Order code
M12	PUR	4-wire		2 m	XS2F-M12PUR4S2M
				2 m	XS2F-M12PUR4A2M



Y92E-S12PP4

Type	Size	Material		Features	Shape	Length	Order code
		Nut	Cable				
Detergent resistant Wash-down	M12	SUS 316L	PP (Polypropylene)	4 pin	Angled	2 m	Y92E-S12PP4A 2M
					Straight	2 m	Y92E-S12PP4S 2M



S8VK

Type	Power ratings	Input voltage	Output voltage	Output current	Size (W × H × D) [mm]	Order code	
						Standard models	Coated models
Power supply Single-phase	60 W	100 to 240 VAC Allowable range: 85 to 264 VAC, 90 to 350 VDC, 2 phases less than 240 VAC	12 V	4.5 A	32 × 90 × 110	S8VK-G06012	S8VK-G06012-400
			24 V	2.5 A		S8VK-G06024	S8VK-G06024-400

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