

Sensing range	9mm ± 2mm	Response time	50µs
Supply voltage	10 to 30V dc	Switch frequency	10kHz
Current consumption	80mA max.	Temperature range	-10°C to +55°C
Output	NPN/PNP transistor		

SEN194X

Mfrs. List No.	Order Code	1+	5+	10+
TL80-011	731-584			

Colour Sensors

Colour Sensor – CS



- True colour detection in real time
- Simple 'Push to teach' programming method
- External programming via input wire
- High-speed switching (1kHz)
- Robust housing, **IP67**
- Individual colour selectivity/tolerance setting



A versatile sensor for reliable detection and sorting of products and materials by colour.

H = 53, W = 30, D = 80

Supply voltage	12-30V dc	Switching frequency	1kHz
Output	PNP	Timer (dropout relay)	Variable = 0ms (run), 20ms dropout relay (run relay)
Scanning range 1	2.5 ± 2mm	Connector	5 pole M12 connector
Light spot	2.4 mm		
Output switching current	100mA (total current)		

SAT95

Mfrs. List No.	Order Code	1+	3+	6+
CSI-P1111	709-7311			

RGB Colour Sensor – E3MC



- Discriminates difference in colour without being influenced by temperature, object brightness or object positioning
- Built-in RGB LED light sources with a long service life, several tens of thousand hours
- Easy-to-see detection level and threshold level indicators
- Available with built-in amplifiers for long-distance sensing and fibre optic types for tiny spot sensing

The E3MC RGB colour sensor processes the red-green-blue ratio of light from the sensed object to discriminate its colour.

Supply voltage	12 to 24V dc (ripple 10% max.)
Control output	NPN or PNP versions, 100mA max.
Response time	Standard mode: 3ms max. High-speed mode: 1ms max. (switch selectable)
Enclosure rating	IP66
Operating temperature	-25°C to +55°C
Timer function	40ms OFF-delay timer (ON/OFF switch selectable)
Sensing distance	Amplifier type: 60 ± 10mm Fibre optic type: 20 ± 4mm
Spot diameter	Amplifier type: 12mm Fibre optic type: 3m

SAT343

	Output	Mfrs. List No.	Order Code	Price Each		
				1+	5+	10+
Built-in amplifier	NPN	E3MC-A11	721-3700			
	PNP	E3MC-A41	721-3712			
Optical fibre type	NPN	E3MC-X11	721-3724			
	PNP	E3MC-X41	721-3736			

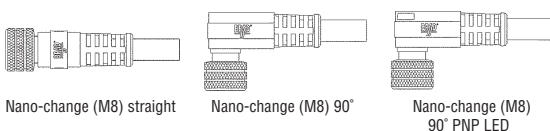
Sensor Connectors

Nano-change 3 & 4 Pole, Female Connectors



Best value

Recent Addition



Nano-change (M8) straight

Nano-change (M8) 90°

Nano-change (M8) 90° PNP LED

SEN391

Order Code	Price Each		
	1+	5+	10+
Nano-change (M8) straight			
2m PVC – 3 pole	346-1981		
5m PVC – 3 pole	346-2006		
2m PUR – 3 pole	346-1993		
5m PUR – 3 pole	346-2018		
2m PVC – 4 pole	346-2020		
5m PVC – 4 pole	346-2043		
2m PUR – 4 pole	346-2031		
5m PUR – 4 pole	346-2055		
Nano-change (M8) 90°			
2m PVC – 3 pole	346-2067		
5m PVC – 3 pole	346-2080		
2m PUR – 3 pole	346-2079		
5m PUR – 3 pole	346-2092		
2m PVC – 4 pole	346-2109		
5m PVC – 4 pole	346-2122		
2m PUR – 4 pole	346-2110		
5m PUR – 4 pole	346-2134		
Nano-change (M8) 90° PNP LED			
2m PVC – 3 pole	346-2146		
5m PVC – 3 pole	346-2160		
2m PUR – 3 pole	346-2158		
5m PUR – 3 pole	346-2171		
Safety Switch Connector – Nano-change (M8) 2 wire & terminated braid			
5 m PVC	353-3967		

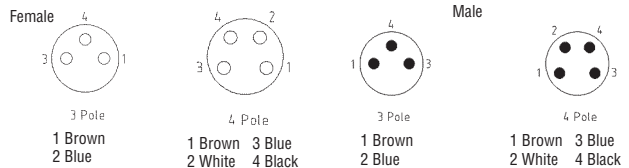
Receptacles – M8 & M12 Threaded



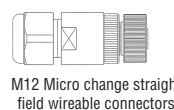
www.wdhd.co.uk

Recent Addition

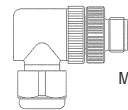
Best value



Order Code	Price Each		
	1+	5+	10+
M8 Nano change straight field wireable connectors			
Female – 3 pole	346-2183		
Female – 4 pole	346-2195		
Male – 3 pole	346-2201		
Male – 4 pole	346-2213		
M8 Nano change 90° field wireable connectors			
Female – 3 pole	346-2225		
Female – 4 pole	346-2237		
Male – 3 pole	346-2249		
Male – 4 pole	346-2250		



M12 Micro change straight field wireable connectors



M12 Micro change 90° field wireable connectors

SEN392

Order Code	Price Each		
	1+	5+	10+
M12 Micro change straight field wireable connectors			
Female – PG7 – 4 Pole	346-2262		
Female – PG9 – 4 Pole	346-2286		
Female – PG7 – 5 Pole	346-2274		
Female – PG9 – 5 Pole	346-2298		
Male – PG7 – 4 Pole	346-2304		
Male – PG9 – 4 Pole	346-2328		
Male – PG7 – 5 Pole	346-2316		
Male – PG9 – 5 Pole	346-2330		
M12 Micro change 90° field wireable connectors			
Female – PG7 – 4 Pole	346-2341		
Female – PG7 – 5 Pole	346-2353		
Male – PG7 – 4 Pole	346-2365		
Male – PG7 – 5 Pole	346-2377		