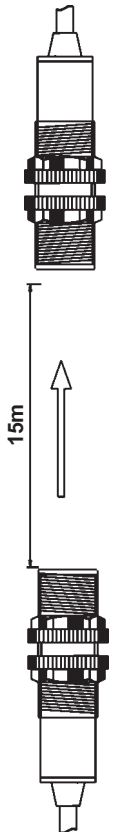
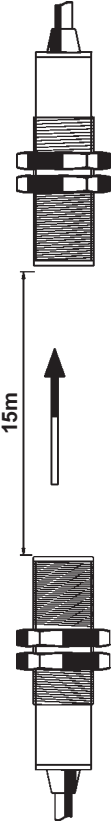
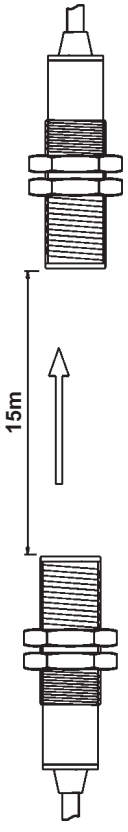


Sensing mode	Material	Connection	Output mode	Part number
 Through-beam mode Sensing distance: 15M	Plastic	 Cable 	Emitter	M18P-T015MD-EX9C3L2
			NPN Light/dark changeover	M18P-T015MN-CX9C4U2
			PNP Light/dark changeover	M18P-T015MP-CX9C4U2
		 Quick Disconnect 	Emitter	M18P-T015MD-EX9Q4LE
			NPN Light/dark changeover	M18P-T015MN-CX9Q4UE
			PNP Light/dark changeover	M18P-T015MP-CX9Q4UE
		 EURO 4 Pins 6" Pig tail 	Emitter	M18P-T015MD-EX9P4LE
			NPN Light/dark changeover	M18P-T015MN-CX9P4UE
			PNP Light/dark changeover	M18P-T015MP-CX9P4UE
		 Cable 	Emitter	M18P-T015MD-EZ9C3L2
			NPN Light/dark changeover	M18P-T015MN-CZ9C4U2
			PNP Light/dark changeover	M18P-T015MP-CZ9C4U2
		 Quick Disconnect 	Emitter	M18P-T015MD-EZ9Q4LE
			NPN Light/dark changeover	M18P-T015MN-CZ9Q4UE
			PNP Light/dark changeover	M18P-T015MP-CZ9Q4UE
		 EURO 4 Pins 6" Pig tail 	Emitter	M18P-T015MD-EZ9P4LE
			NPN Light/dark changeover	M18P-T015MN-CZ9P4UE
			PNP Light/dark changeover	M18P-T015MP-CZ9P4UE

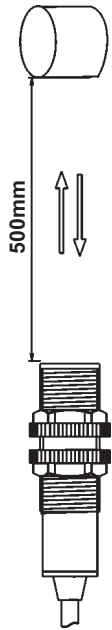
M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Through-beam mode Sensing distance: 15M	Plastic	 Cable Right-Angle 	Emitter	M18P-T015MD-EY9C3L2-Y
			NPN Light/dark changeover	M18P-T015MN-CY9C4U2-Y
			PNP Light/dark changeover	M18P-T015MP-CY9C4U2-Y
		 Quick Disconnect Right-Angle 	Emitter	M18P-T015MD-EY9Q4LE-Y
			NPN Light/dark changeover	M18P-T015MN-CY9Q4UE-Y
			PNP Light/dark changeover	M18P-T015MP-CY9Q4UE-Y
		 EURO 4 Pins 6" Pig tail Right-Angle 	Emitter	M18P-T015MD-EY9P4LE-Y
			NPN Light/dark changeover	M18P-T015MN-CY9P4UE-Y
			PNP Light/dark changeover	M18P-T015MP-CY9P4UE-Y
	Brass (stainless steel can be produced also)	 Cable 	Emitter	M18B-T015MD-EX9C3L2
			NPN Light/dark changeover	M18B-T015MN-CX9C4U2
			PNP Light/dark changeover	M18B-T015MP-CX9C4U2
		 Quick Disconnect 	Emitter	M18B-T015MD-EX9Q4LE
			NPN Light/dark changeover	M18B-T015MN-CX9Q4UE
			PNP Light/dark changeover	M18B-T015MP-CX9Q4UE
		 EURO 4 Pins 6" Pig tail 	Emitter	M18B-T015MD-EX9P4LE
			NPN Light/dark changeover	M18B-T015MN-CX9P4UE
			PNP Light/dark changeover	M18B-T015MP-CX9P4UE

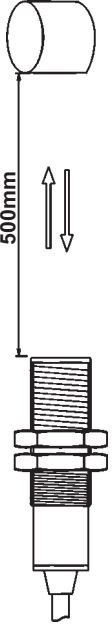
M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Through-beam mode Sensing distance: 15M	Brass (stainless steel can be produced also)	 Cable Right-Angle 	Emitter	M18B-T015MD-EY9C3L2-Y
			NPN Light/dark changeover	M18B-T015MN-CY9C4U2-Y
			PNP Light/dark changeover	M18B-T015MP-CY9C4U2-Y
		 Quick Disconnect Right-Angle 	Emitter	M18B-T015MD-EY9Q4LE-Y
			NPN Light/dark changeover	M18B-T015MN-CY9Q4UE-Y
			PNP Light/dark changeover	M18B-T015MP-CY9Q4UE-Y
		 EURO 4 Pins 6" Pig tail Right-Angle 	Emitter	M18B-T015MD-EY9P4LE-Y
			NPN Light/dark changeover	M18B-T015MN-CY9P4UE-Y
			PNP Light/dark changeover	M18B-T015MP-CY9P4UE-Y

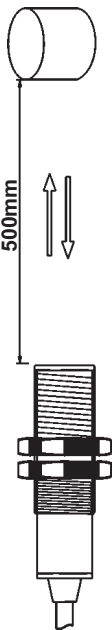
M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 500mm	Plastic	 Cable 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CX9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CX9C4U2
		 Quick Disconnect 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CX9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CX9Q4UE
		 EURO 4 Pins 6" Pig tail 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CX9P4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CX9P4UE
		 Cable 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CZ9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CZ9C4U2
		 Quick Disconnect 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CZ9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CZ9Q4UE
		 EURO 4 Pins 6" Pig tail 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CZ9P4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CZ9P4UE

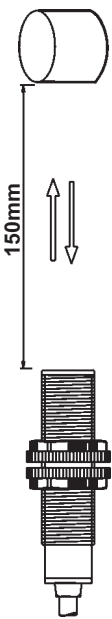
M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 500mm	Plastic	 Cable Right-Angle	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CY9C4U2-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CY9C4U2-Y
		 Quick Disconnect Right-Angle	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CY9Q4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CY9Q4UE-Y
	Brass (stainless steel can be produced also)	 EURO 4 Pins 6" Pig tail Right-Angle	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0500N-CY9P4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0500P-CY9P4UE-Y
		 Cable	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0500N-CX9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0500P-CX9C4U2
		 Quick Disconnect	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0500N-CX9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0500P-CX9Q4UE
		 EURO 4 Pins 6" Pig tail	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0500N-CX9P4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0500P-CX9P4UE

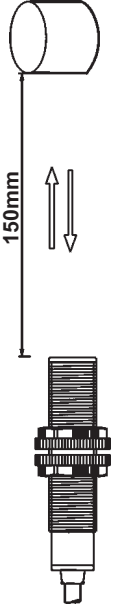
M18 SENSORS SELECTION GUIDE (DC)

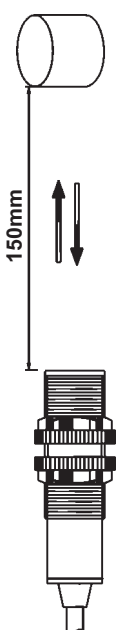
Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 500mm	Brass (stainless steel can be produced also)	 Cable Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0500N-CY9C4U2-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0500P-CY9C4U2-Y
		 Quick Disconnect Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0500N-CY9Q4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0500P-CY9Q4UE-Y
		 EURO 4 Pins 6" Pig tail Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0500N-CY9P4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0500P-CY9P4UE-Y

M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 150mm	Plastic	 Cable 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0150N-CX9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0150P-CX9C4U2
		 Quick Disconnect 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0150N-CX9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0150P-CX9Q4UE
		 EURO 4 Pins 6 " Pig tail 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0150N-CX9P4U
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0150P-CX9P4U
		 Cable 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0150N-CZ9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0150P-CZ9C4U2
		 Quick Disconnect 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0150N-CZ9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0150P-CZ9Q4UE
		 EURO 4 Pins 6 " Pig tail 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-D0150N-CZ9P4U
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-D0150P-CZ9P4U

M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 150mm	Plastic	 Cable Right-Angle 	NPN Light-on	-
			NPN Dark-on	-
			NPN Light/Dark changeover	M18P-D0150N-CY9C4U2-Y
			PNP Light-on	-
			PNP Dark-on	-
			PNP Light/Dark changeover	M18P-D0150P-CY9C4U2-Y
		 Quick Disconnect Right-Angle 	NPN Light-on	-
			NPN Dark-on	-
			NPN Light/Dark changeover	M18P-D0150N-CY9Q4UE-Y
			PNP Light-on	-
			PNP Dark-on	-
			PNP Light/Dark changeover	M18P-D0150P-CY9Q4UE-Y
		 EURO 4 Pins 6" Pig tail Right-Angle 	NPN Light-on	-
			NPN Dark-on	-
			NPN Light/Dark changeover	M18P-D0150N-CY9P4UE-Y
			PNP Light-on	-
			PNP Dark-on	-
			PNP Light/Dark changeover	M18P-D0150P-CY9P4UE-Y
	Brass (stainless steel can be produced also)	 Cable 	NPN Light-on	-
			NPN Dark-on	-
			NPN Light/Dark changeover	M18B-D0150N-CX9C4U2
			PNP Light-on	-
			PNP Dark-on	-
			PNP Light/Dark changeover	M18B-D0150P-CX9C4U2
		 Quick Disconnect 	NPN Light-on	-
			NPN Dark-on	-
			NPN Light/Dark changeover	M18B-D0150N-CX9Q4UE
			PNP Light-on	-
			PNP Dark-on	-
			PNP Light/Dark changeover	M18B-D0150P-CX9Q4UE
		 EURO 4 Pins 6" Pig tail 	NPN Light-on	-
			NPN Dark-on	-
			NPN Light/Dark changeover	M18B-D0150N-CX9P4UE
			PNP Light-on	-
			PNP Dark-on	-
			PNP Light/Dark changeover	M18B-D0150P-CX9P4UE

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 150mm	Brass (stainless steel can be produced also)	 Cable Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0150N-CY9C4U2-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0150P-CY9C4U2-Y
		 Quick Disconnect Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0150N-CY9Q4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0150P-CY9Q4UE-Y
		 EURO 4 Pins 6 " Pig tail Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-D0150N-CY9P4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-D0150P-CY9P4UE-Y

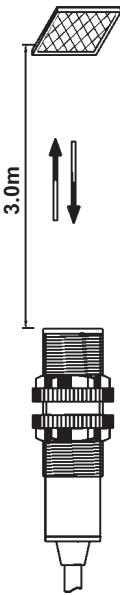
M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode Sensing distance: 3.0m	Plastic	 Cable	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CX9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CX9C4U2
		 Quick Disconnect	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CX9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CX9Q4UE
		 EURO 4 Pins 6" Pig tail	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CX9P4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CX9P4UE
		 Cable	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CZ9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CZ9C4U2
		 Quick Disconnect	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CZ9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CZ9Q4UE
		 EURO 4 Pins 6" Pig tail	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CZ9P4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CZ9P4UE

M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode Sensing distance: 3.0m	Plastic	 Cable Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CY9C4U2-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CY9C4U2-Y
		 Quick Disconnect Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CY9Q4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CY9Q4UE-Y
		 EURO 4 Pins 6" Pig tail Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L3000N-CY9P4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L3000P-CY9P4UE-Y
	Brass (stainless steel can be produced also)	 Cable 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L3000N-CX9C4U2
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L3000P-CX9C4U2
		 Quick Disconnect 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L3000N-CX9Q4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L3000P-CX9Q4UE
		 EURO 4 Pins 6" Pig tail 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L3000N-CX9P4UE
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L3000P-CX9P4UE

M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode Sensing distance: 3.0m	Brass (stainless steel can be produced also)	 Cable Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L3000N-CY9C4U2-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L3000P-CY9C4U2-Y
		 Quick Disconnect Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L3000N-CY9Q4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L3000P-CY9Q4UE-Y
		 EURO 4 Pins 6" Pig tail Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L3000N-CY9P4UE-Y
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L3000P-CY9P4UE-Y

M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode with polarizing filter Sensing distance: 1.0m	Plastic	 Cable	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CX6C4U2-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CX6C4U2-PF
		 Quick Disconnect	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CX6Q4UE-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CX6Q4UE-PF
		 EURO 4 Pins 6" Pig tail	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CX6P4UE-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CX6P4UE-PF
		 Cable	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CZ6C4U2-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CZ6C4U2-PF
		 Quick Disconnect	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CZ6Q4UE-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CZ6Q4UE-PF
		 EURO 4 Pins 6" Pig tail	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CZ6P4UE-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CZ6P4UE-PF

M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode with polarizing filter Sensing distance: 1.0m	Plastic	 Cable Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CY6C4U2-FY
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CY6C4U2-FY
		 Quick Disconnect Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CY6Q4UE-FY
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CY6Q4UE-FY
		 EURO 4 Pins 6" Pig tail Right-Angle 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18P-L1000N-CY6P4UE-FY
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18P-L1000P-CY6P4UE-FY
	Brass (stainless steel can be produced also)	 Cable 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L1000N-CX6C4U2-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L1000P-CX6C4U2-PF
		 Quick Disconnect 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L1000N-CX6Q4UE-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L1000P-CX6Q4UE-PF
		 EURO 4 Pins 6" Pig tail 	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L1000N-CX6P4UE-PF
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L1000P-CX6P4UE-PF

M18 SENSORS SELECTION GUIDE (DC)

Sensing mode	Material	Connection	Output mode	Part number
Retro-reflective mode with polarizing filter Sensing distance: 1.0m	Brass (stainless steel can be produced also)	 Cable Right-Angle	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L1000N-CY6C4U2-FY
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L1000P-CY6C4U2-FY
		 Quick Disconnect Right-Angle	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L1000N-CY6Q4UE-FY
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L1000P-CY6Q4UE-FY
		 EURO 4 Pins 6" Pig tail Right-Angle	NPN Light-on	—
			NPN Dark-on	—
			NPN Light/Dark changeover	M18B-L1000N-CY6P4UE-FY
			PNP Light-on	—
			PNP Dark-on	—
			PNP Light/Dark changeover	M18B-L1000P-CY6P4UE-FY

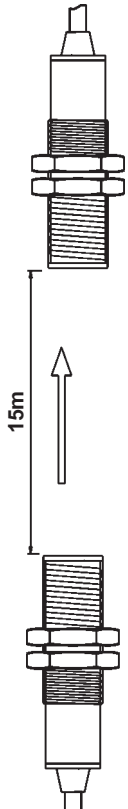
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Through-beam mode Sensing distance:15M	Plastic	 Cable 	Emitter	M18P-T015MA-EX9C2L2
			LIGHT-ON	M18P-T015MA-LX9C3U2
			DARK-ON	M18P-T015MA-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Emitter	M18P-T015MA-EX9Q4LM
			LIGHT-ON	M18P-T015MA-LX9Q4UM
			DARK-ON	M18P-T015MA-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6 " Pig tail 	Emitter	M18P-T015MA-EX9P4LM
			LIGHT-ON	M18P-T015MA-LX9P4UM
			DARK-ON	M18P-T015MA-DX9P4UM
			Light/dark changeover	—
		 Cable 	Emitter	M18P-T015MA-EZ9C2L2
			LIGHT-ON	M18P-T015MA-LZ9C3U2
			DARK-ON	M18P-T015MA-DZ9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Emitter	M18P-T015MA-EZ9Q4LM
			LIGHT-ON	M18P-T015MA-LZ9Q4UM
			DARK-ON	M18P-T015MA-DZ9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6 " Pig tail 	Emitter	M18P-T015MA-EZ9P4LM
			LIGHT-ON	M18P-T015MA-LZ9P4UM
			DARK-ON	M18P-T015MA-DZ9P4UM
			Light/dark changeover	—

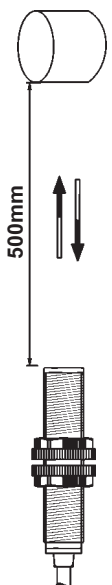
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Through-beam mode Sensing distance: 15M	Plastic	 Cable Right Angle 	Emitter	M18P-T015MA-EY9C2L2-Y
			LIGHT-ON	M18P-T015MA-LY9C3U2-Y
			DARK-ON	M18P-T015MA-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Emitter	M18P-T015MA-EY9Q4LM-Y
			LIGHT-ON	M18P-T015MA-LY9Q4UM-Y
			DARK-ON	M18P-T015MA-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro4 Pins 6 " Pig tail Right-Angle 	Emitter	M18P-T015MA-EY9P4LM-Y
			LIGHT-ON	M18P-T015MA-LY9P4UM-Y
			DARK-ON	M18P-T015MA-DY9P4UM-Y
			Light/dark changeover	—
	Brass (stainless steel can be produced also)	 Cable 	Emitter	M18B-T015MA-EX9C2L2
			LIGHT-ON	M18B-T015MA-LX9C3U2
			DARK-ON	M18B-T015MA-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Emitter	M18B-T015MA-EX9Q4LM
			LIGHT-ON	M18B-T015MA-LX9Q4UM
			DARK-ON	M18B-T015MA-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6 " Pig tail 	Emitter	M18B-T015MA-EX9P4LM
			LIGHT-ON	M18B-T015MA-LX9P4UM
			DARK-ON	M18B-T015MA-DX9P4UM
			Light/dark changeover	—

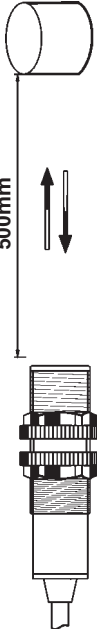
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Through-beam mode Sensing distance:15M	Brass (stainless steel can be produced also)	 Cable Right-Angle 	Emitter	M18B-T015MA-EY9C2L2-Y
			LIGHT-ON	M18B-T015MA-LY9C3U2-Y
			DARK-ON	M18B-T015MA-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Emitter	M18B-T015MA-EY9Q4LM-Y
			LIGHT-ON	M18B-T015MA-LY9Q4UM-Y
			DARK-ON	M18B-T015MA-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle 	Emitter	M18B-T015MA-EY9P4LM-Y
			LIGHT-ON	M18B-T015MA-LY9P4UM-Y
			DARK-ON	M18B-T015MA-DY9P4UM-Y
			Light/dark changeover	—

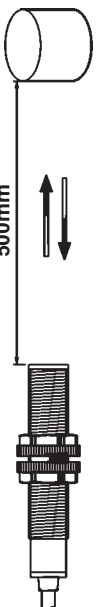
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 500mm	Plastic	 Cable 	Light-ON	M18P-D0500A-LX9C3U2
			Dark-ON	M18P-D0500A-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-D0500A-LX9Q4UM
			Dark-ON	M18P-D0500A-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-D0500A-LX9P4UM
			Dark-ON	M18P-D0500A-DX9P4UM
			Light/dark changeover	—
		 Cable 	Light-ON	M18P-D0500A-LZ9C3U2
			Dark-ON	M18P-D0500A-DZ9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-D0500A-LZ9Q4UM
			Dark-ON	M18P-D0500A-DZ9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-D0500A-LZ9P4UM
			Dark-ON	M18P-D0500A-DZ9P4UM
			Light/dark changeover	—

M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 500mm	Plastic	 Cable Right-Angle 	Light-ON	M18P-D0500A-LY9C3U2-Y
			Dark-ON	M18P-D0500A-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Light-ON	M18P-D0500A-LY9Q4UM-Y
			Dark-ON	M18P-D0500A-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle 	Light-ON	M18P-D0500A-LY9P4UM-Y
			Dark-ON	M18P-D0500A-DY9P4UM-Y
			Light/dark changeover	—
	Brass (stainless steel can be produced also)	 Cable 	Light-ON	M18B-D0500A-LX9C3U2
			Dark-ON	M18B-D0500A-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18B-D0500A-LX9Q4UM
			Dark-ON	M18B-D0500A-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18B-D0500A-LX9P4UM
			Dark-ON	M18B-D0500A-DX9P4UM
			Light/dark changeover	—

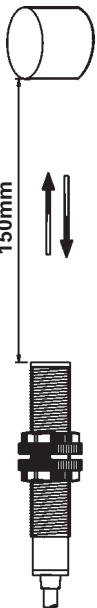
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 500mm	Brass (stainless steel can be produced also)	 Cable Right-Angle CE	Light-ON	M18B-D0500A-LY9C3U2-Y
			Dark-ON	M18B-D0500A-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle CE	Light-ON	M18B-D0500A-LY9Q4UM-Y
			Dark-ON	M18B-D0500A-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle CE	Light-ON	M18B-D0500A-LY9P4UM-Y
			Dark-ON	M18B-D0500A-DY9P4UM-Y
			Light/dark changeover	—

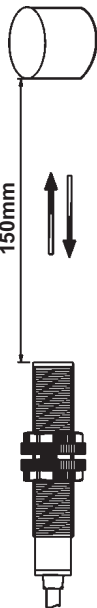
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 150mm	Plastic	 Cable 	Light-ON	M18P-D0150A-LX9C3U2
			Dark-ON	M18P-D0150A-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-D0150A-LX9Q4UM
			Dark-ON	M18P-D0150A-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-D0150A-LX9P4UM
			Dark-ON	M18P-D0150A-DX9P4UM
			Light/dark changeover	—
		 Cable 	Light-ON	M18P-D0150A-LZ9C3U2
			Dark-ON	M18P-D0150A-DZ9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-D0150A-LZ9Q4UM
			Dark-ON	M18P-D0150A-DZ9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-D0150A-LZ9P4UM
			Dark-ON	M18P-D0150A-DZ9P4UM
			Light/dark changeover	—

M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 150mm	Plastic	 Cable Right-Angle 	Light-ON	M18P-D0150A-LY9C3U2-Y
			Dark-ON	M18P-D0150A-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Light-ON	M18P-D0150A-LY9Q4UM-Y
			Dark-ON	M18P-D0150A-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle 	Light-ON	M18P-D0150A-LY9P4UM-Y
			Dark-ON	M18P-D0150A-DY9P4UM-Y
			Light/dark changeover	—
	Brass (stainless steel can be produced also)	 Cable 	Light-ON	M18B-D0150A-LX9C3U2
			Dark-ON	M18B-D0150A-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18B-D0150A-LX9Q4UM
			Dark-ON	M18B-D0150A-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18B-D0150A-LX9P4UM
			Dark-ON	M18B-D0150A-DX9P4UM
			Light/dark changeover	—

M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Diffuse mode Sensing distance: 150mm	Brass (stainless steel can be produced also)	 Cable Right-Angle 	Light-ON	M18B-D0150A-LY9C3U2-Y
			Dark-ON	M18B-D0150A-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Light-ON	M18B-D0150A-LY9Q4UM-Y
			Dark-ON	M18B-D0150A-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle 	Light-ON	M18B-D0150A-LY9P4UM-Y
			Dark-ON	M18B-D0150A-DY9P4UM-Y
			Light/dark changeover	—

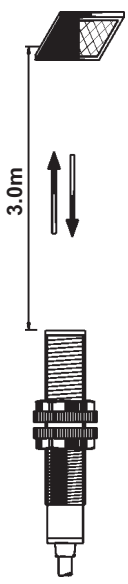
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode Sensing distance: 3.0m	Plastic	 Cable 	Light-ON	M18P-L3000A-LX9C3U2
			Dark-ON	M18P-L3000A-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-L3000A-LX9Q4UM
			Dark-ON	M18P-L3000A-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-L3000A-LX9P4UM
			Dark-ON	M18P-L3000A-DX9P4UM
			Light/dark changeover	—
		 Cable 	Light-ON	M18P-L3000A-LZ9C3U2
			Dark-ON	M18P-L3000A-DZ9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-L3000A-LZ9Q4UM
			Dark-ON	M18P-L3000A-DZ9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-L3000A-LZ9P4UM
			Dark-ON	M18P-L3000A-DZ9P4UM
			Light/dark changeover	—

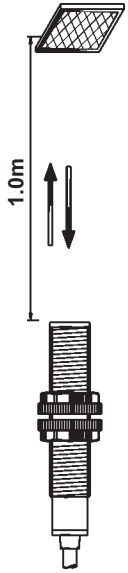
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode Sensing distance: 3.0m	Plastic	 Cable Right-Angle 	Light-ON	M18P-L3000A-LY9C3U2-Y
			Dark-ON	M18P-L3000A-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Light-ON	M18P-L3000A-LY9Q4UM-Y
			Dark-ON	M18P-L3000A-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle 	Light-ON	M18P-L3000A-LY9P4UM-Y
			Dark-ON	M18P-L3000A-DY9P4UM-Y
			Light/dark changeover	—
	Brass (stainless steel can be produced also)	 Cable 	Light-ON	M18B-L3000A-LX9C3U2
			Dark-ON	M18B-L3000A-DX9C3U2
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18B-L3000A-LX9Q4UM
			Dark-ON	M18B-L3000A-DX9Q4UM
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18B-L3000A-LX9P4UM
			Dark-ON	M18B-L3000A-DX9P4UM
			Light/dark changeover	—

M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode Sensing distance: 3.0m	Brass (stainless steel can be produced also)	 Cable Right-Angle 	Light-ON	M18B-L3000A-LY9C3U2-Y
			Dark-ON	M18B-L3000A-DY9C3U2-Y
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Light-ON	M18B-L3000A-LY9Q4UM-Y
			Dark-ON	M18B-L3000A-DY9Q4UM-Y
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle 	Light-ON	M18B-L3000A-LY9P4UM-Y
			Dark-ON	M18B-L3000A-DY9P4UM-Y
			Light/dark changeover	—

M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode with polarizing filter Sensing distance: 1.0m	Plastic	 Cable 	Light-ON	M18P-L1000A-LX6C3U2-PF
			Dark-ON	M18P-L1000A-DX6C3U2-PF
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-L1000A-LX6Q4UM-PF
			Dark-ON	M18P-L1000A-DX6Q4UM-PF
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-L1000A-LX6P4UM-PF
			Dark-ON	M18P-L1000A-DX6P4UM-PF
			Light/dark changeover	—
		 Cable 	Light-ON	M18P-L1000A-LZ6C3U2-PF
			Dark-ON	M18P-L1000A-DZ6C3U2-PF
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18P-L1000A-LZ6Q4UM-PF
			Dark-ON	M18P-L1000A-DZ6Q4UM-PF
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18P-L1000A-LZ6P4UM-PF
			Dark-ON	M18P-L1000A-DZ6P4UM-PF
			Light/dark changeover	—

M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode with polarizing filter Sensing distance: 1.0m	Plastic	 Cable Right-Angle 	Light-ON	M18P-L1000A-LY6C3U2-FY
			Dark-ON	M18P-L1000A-DY6C3U2-FY
			Light/dark changeover	—
		 Quick Disconnect Right-Angle 	Light-ON	M18P-L1000A-LY6Q4UM-FY
			Dark-ON	M18P-L1000A-DY6Q4UM-FY
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle 	Light-ON	M18P-L1000A-LY6P4UM-FY
			Dark-ON	M18P-L1000A-DY6P4UM-FY
			Light/dark changeover	—
	Brass (stainless steel can be produced also)	 Cable 	Light-ON	M18B-L1000A-LX6C3U2-PF
			Dark-ON	M18B-L1000A-DX6C3U2-PF
			Light/dark changeover	—
		 Quick Disconnect 	Light-ON	M18B-L1000A-LX6Q4UM-PF
			Dark-ON	M18B-L1000A-DX6Q4UM-PF
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail 	Light-ON	M18B-L1000A-LX6P4UM-PF
			Dark-ON	M18B-L1000A-DX6P4UM-PF
			Light/dark changeover	—

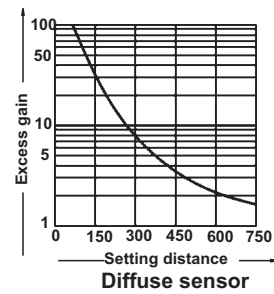
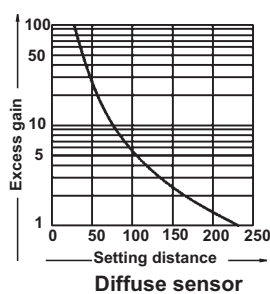
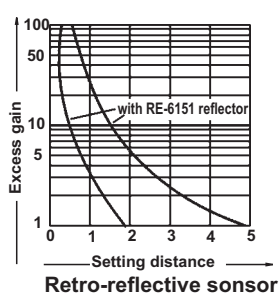
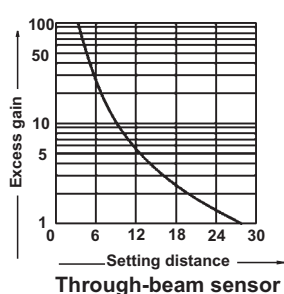
M18 SENSORS SELECTION GUIDE (AC)

Sensing mode	Material	Connection	Output mode	Part number
 Retro-reflective mode with polarizing filter Sensing distance: 1.0m	Brass (stainless steel can be produced also)	 Cable Right-Angle CE	Light-ON	M18B-L1000A-LY6C3U2-FY
			Dark-ON	M18B-L1000A-DY6C3U2-FY
			Light/dark changeover	—
		 Quick Disconnect Right-Angle CE	Light-ON	M18B-L1000A-LY6Q4UM-FY
			Dark-ON	M18B-L1000A-DY6Q4UM-FY
			Light/dark changeover	—
		 Micro 4 Pins 6" Pig tail Right-Angle CE	Light-ON	M18B-L1000A-LY6P4UM-FY
			Dark-ON	M18B-L1000A-DY6P4UM-FY
			Light/dark changeover	—

M18 SENSORS SPECIFICATIONS (DC)

Type Item Model No.		Through-beam	Retroreflective		Diffuse reflective	
				With polarizing filters		
		M18x-T015Mx-xxxxxx	M18x-L3000x-xxxxxx	M18x-L1000x-xxxxxx-PF	M18x-D0150x-xxxxxx	M18x-D0500x-xxxxxx
Sensing range		15m	3m	1m	150mm	500mm
Sensing object		Opaque object of $\phi 8\text{mm}$ or more	3-way mirror	3-way mirror	White paper	
Hysteresis					20% or less of operation distance	
Supply Voltage		10 to 30V DC, Ripple P-P 10% or less				
Current consumption		30mA or less				
Output		<NPN> output type> NPN open-collector transistor - Applied voltage: 30V DC or less - Maximum sink current: 200mA - Voltage drop: 2.5V or less			<PNP> output type> PNP open-collector transistor - Applied voltage: 30V DC or less - Maximum sourc current: 200mA - Voltage drop: 2.5V or less	
Output operation		Selectable either Light-ON Dark-ON by the control input wire				
Short-circuit protection		Yes				
Reverse polarity protection		Yes				
Overload current protection		Yes				
Response time		1.5ms				
Operation indicator		Red LED (light up when the output is activated), Thru-beam sensor is provided it on the receiver				
Pollution degree		3(Industrial environment)				
Protection		IP67(IEC)				
Ambient temperature		-25°C to +55°C				
Ambient humidity		35 to 85% RH,Storage:35 to 85% RH				
EMC		IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)				
Voltage Withstand Ability		IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure				
Insulation Resistance		>20M Ω , with 1500V AC megger between all supply terminals connected together and enclosure				
Vibration Resistance		IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min				
Shock Resistance		IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each				
Emitting element		Infrared LED (modulated)		Red LED (modulated)		Infrared LED (modulated)
Housing material		Plastic housing: PBT Metal housing: Nickel-plated brass				
cable		2M or 9m 5.8 ϕ (Plastic Housing:4 ϕ) 4X0.5 (Emitter :3X0.5) PVC.				
Pigtail Tpye		See page Q-01 for cable and connect at pigtail				

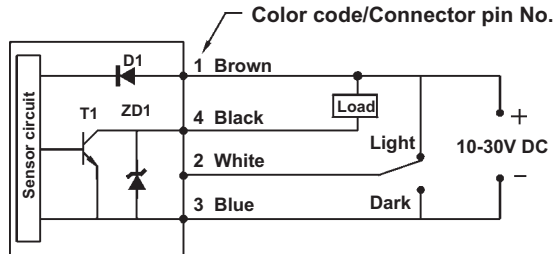
Sensing fields (typical)



M18 SENSORS CIRCUIT AND WIRING DIAGRAMS

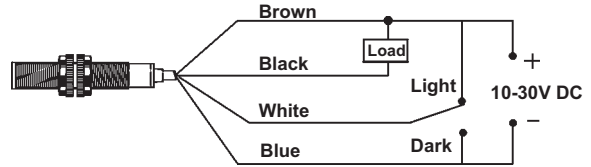
NPN output type

I/O circuit diagram



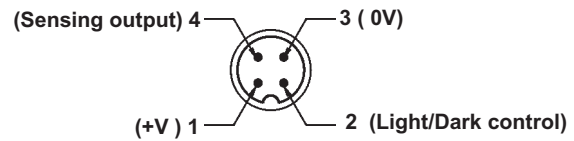
Symbol D1:Reverse polarity protection diode
ZD1:Surge absorption zener diode
T1:NPN output transistor

Wiring diagram



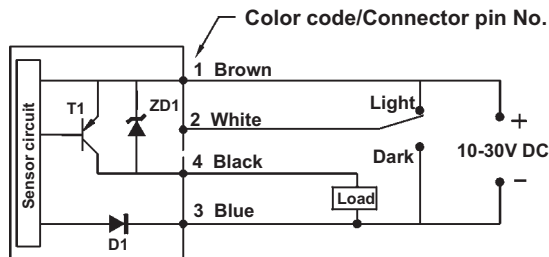
Connector pin position

EURO-style



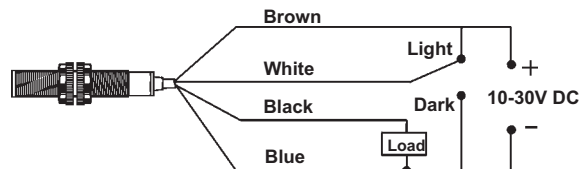
PNP output type

I/O circuit diagram



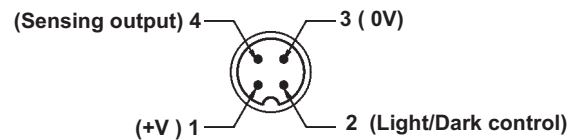
Symbol D1:Reverse polarity protection diode
ZD1:Surge absorption zener diode
T1:PNP output transistor

Wiring diagram



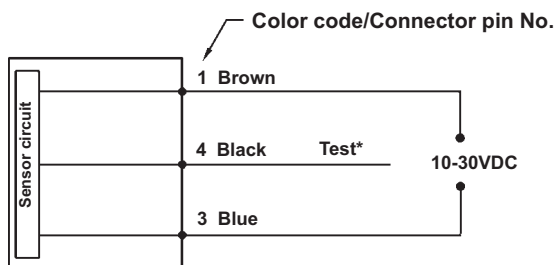
Connector pin position

EURO-style



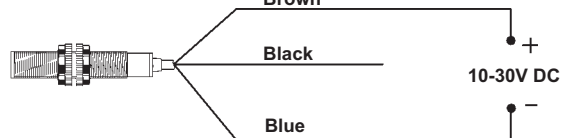
Emitter:

I/O circuit diagram



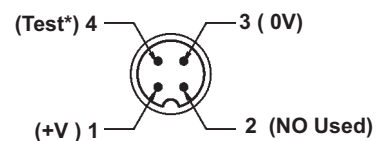
*: Test (black wire) = 0V, Emitter Off.

Wiring diagram



Connector pin position

EURO-style



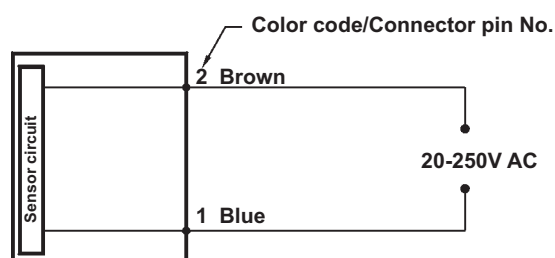
M18 SENSORS SPECIFICATIONS(AC)

Type Item Model No.		Through-beam	Retroreflective		Diffuse reflective	
				With polarizing filters		
		M18x-T015MA-xxxxxx	M18x-L3000A-xxxxxx	M18x-L1000A-xxxxxx-PF	M18x-D0150A-xxxxxx	M18x-D0500A-xxxxxx
Sensing range		15m	3m	1m	150mm	500mm
Sensing object		Opaque object of 8mm or more	3-way mirror	3-way mirror	White paper	
Hysteresis		—			20% or less of operation distance	
Supply Voltage		Emitter: 30mA or less Receiver: 5mA or less		5mA or less		
Current consumption		20 to 250V AC				
Output		AC non-contact (thyristor output) • Applied voltage: 20 to 250V AC • Max. Load current: 300mA • Voltage drop: 10V AC or less				
Output operation		Selectable either Light-ON Dark-ON by type number				
Overload current protection		Yes				
Response time		15ms				
Operation indicator		Red LED (light up when the output is activated), Thru-beam sensor is provided it on the receiver				
Pollution degree		3(Industrial environment)				
Protection		IP67(IEC)				
Ambient temperature		-25°C to +55°C				
Ambient humidity		35 to 85% RH,Storage:35 to 85% RH				
EMC		IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)				
Voltage Withstand Ability		IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure				
Insulation Resistance		>20MΩ , with 1500V AC megger between all supply terminals connected together and enclosure				
Vibration Resistance		IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min				
Shock Resistance		IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each				
Emitting element		Infrared LED (modulated)	Red LED (modulated)		Infrared LED (modulated)	
Material		PBT or Brass				
cable		2M or 9m 5.8φ(Plastic Housing:4φ) 4X0.5 (Emitter :3X0.5) PVC.				
Pigtail Tpye		See page Q-01 for cable and connect at pigtail				

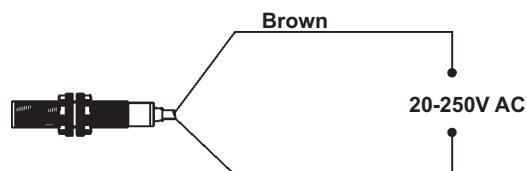
M18 SENSORS CIRCUIT AND WIRING DIAGRAMS

Emitter of thru-beam sensor

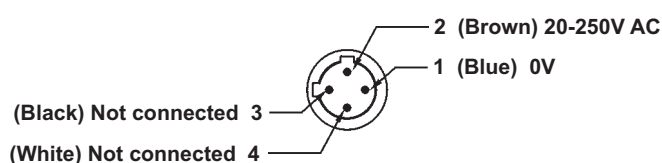
I/O circuit diagram



Wiring diagram

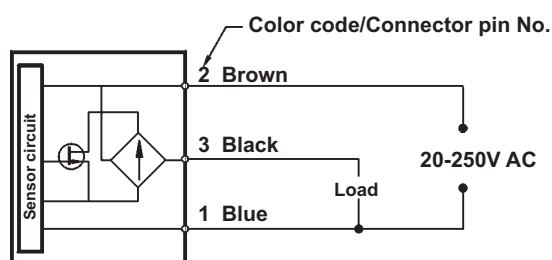


Connector pin position
MICRO-style

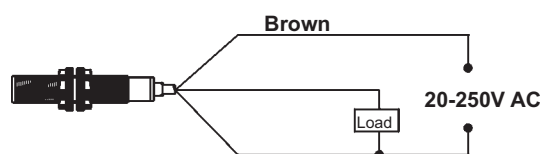


Receiver of thru-beam,retroreflective & diffuse reflective sensor

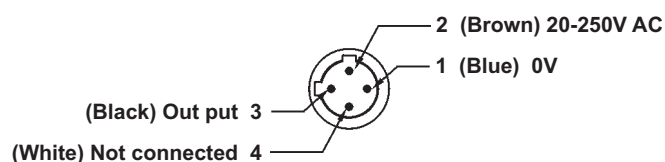
I/O circuit diagram



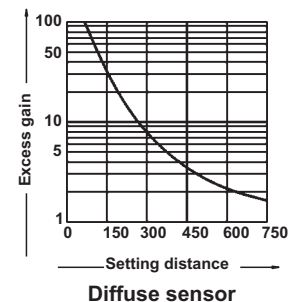
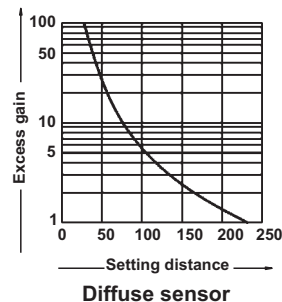
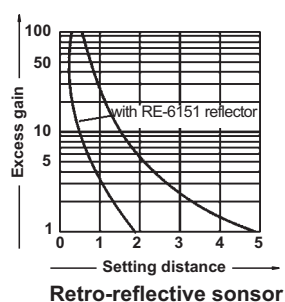
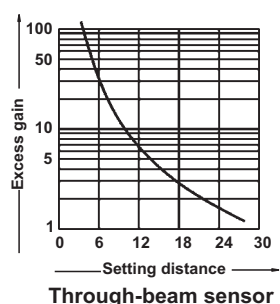
Wiring diagram



Connector pin position
MICRO-style



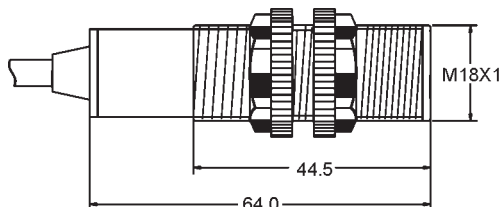
SENSING FIELDS (TYPICAL)



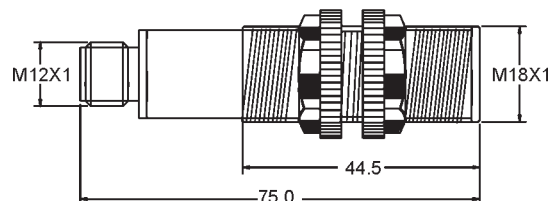
M18 SERIES

M18 SENSORS DIMENSIONS (Plastic Housing)

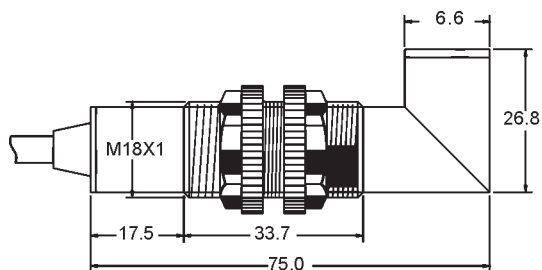
X-state, Cable version



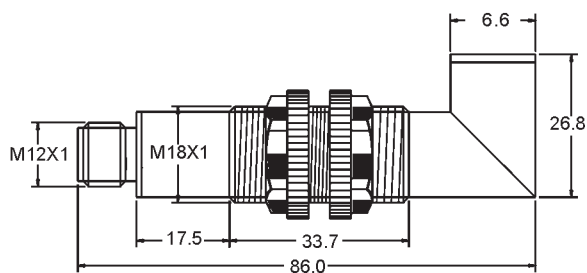
X-state, EURO-style quick connector



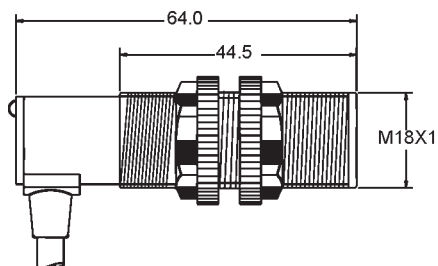
Z-state, Cable version



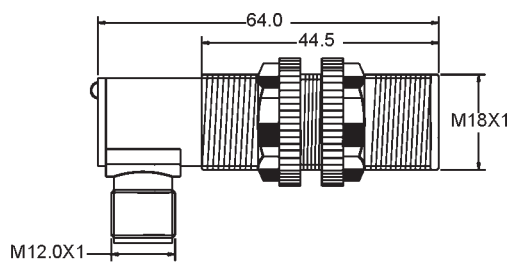
Z-state, EURO-style quick connector



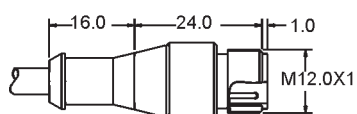
Y-state, Right Angle with Cable version



Y-state, Right Angle with QD connector EURO-style.



EURO-style quick connector for Pig-tail series



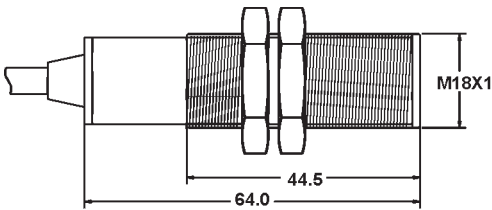
PICO-style quick connector for Pig-tail series



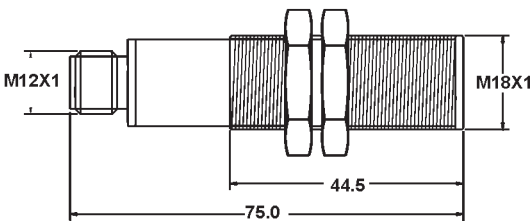
M18 SERIES

M18 SENSORS DIMENSIONS (Brass Housing)

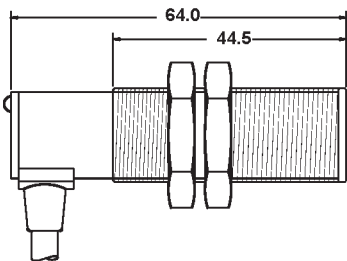
X-state, Cable version



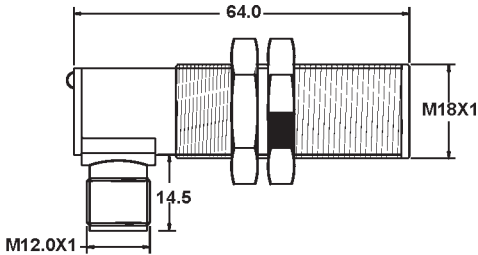
X-state, EURO-style quick connector



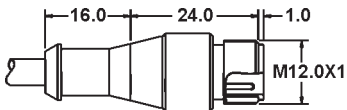
Y-state, Right Angle with Cable version



Y-state, Right Angle EURO-style quick connector



EURO-style quick connector for Pig-tail series



PICO-style quick connector for Pig-tail series

