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COMMON FEATURES

Supply Voltage range	10 ... 30 VDC
Output	PNP Light-ON*

* Other types available: PNP, NPN, Dark-ON, Light-ON/
 Dark-ON, Light-ON + stability alarm, Dark-ON + stability alarm

OUTPUT

Sensor type
 [LT] Diffuse [LR] Reflex [LL] Through-beam
 [LH] Background suppression
 Housing material
 [M] Metal [P] Plastic
 [xx][x]-M18[x]A-[xxx]-[xxx] — see p. 196
 Emission type
 [R] Red — see p. 196
 Reference key on page 196

OPERATING PRINCIPLE


Background suppression
 Diffuse
 Reflex
 Through-beam

ACCESSORIES


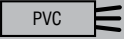

















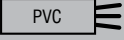


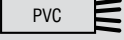


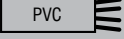














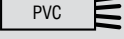


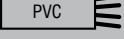











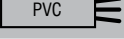





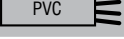





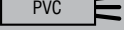


A Group A: M8 3-pin
 Sub-group: Field attachable connectors
 Sub-group: Distribution boxes
B Group B: M8 4-pin
 Sub-group: Field attachable connectors
C Group C: M12 4-pin
 Sub-group: Field attachable connectors
 Sub-group: Distribution boxes
D Group D: M12 AC/DC 3-pin
E Group E: Universal mounting brackets
 Sub-group: Mechanical stops
F Group F: Photoelectric mounting brackets
G Group G: Photoelectric reflectors
H Group H: Sensor tester
 Go to page 298 for details

CYLINDRICAL M18					
M18P/M18M SERIES					
FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	HOUSING SIZE (mm)	LIGHT SOURCE	
CYLINDRICAL M18 – M18P/M18M SERIES		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		250	M18	Pinpoint LED, red 640 nm	
		1,200	M18	LED, red 630 nm	
		1,200	M18	LED, red 630 nm	
		1,200	M18	LED, red 630 nm	
		1,200	M18	LED, red 630 nm	
		7,000	M18	LED, red 630 nm	
	7,000	M18	LED, red 630 nm		
	30,000	M18	LED, red 630 nm		

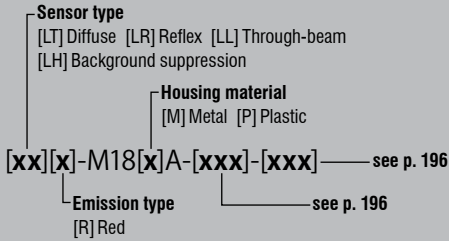
KEY ADVANTAGES

- ✓ First-class sensing ranges
- ✓ Short housing: M18 × 33 mm (cable version), M18 × 37 mm (connector version)
- ✓ Excellent background suppression characteristics with pinpoint LED
- ✓ Mutual interference immunity
- ✓  IO-Link on all PNP sensors
- ✓ Easy flush mounting
- ✓ Easy-to-mount special accessories for right-angle emission



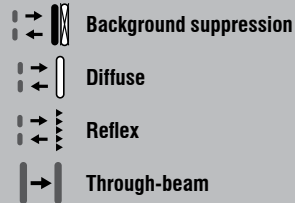
	HOUSING MATERIAL	CABLE	CONNECTOR	 IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE*	ACCESSORIES (SEE PAGE 130)
	ABS			 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-PMK-403	
	ABS			 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-PMK-603	
	ABS			 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-PMK-60C	
	ABS		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-PMS-403	
	ABS		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-PMS-603	
	ABS		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-PMS-60C	
	ABS			 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-TMK-403	
	ABS			 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-TMK-603	
	ABS			 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-TMK-60C	
	ABS		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-TMS-403	
	ABS		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-TMS-603	
	ABS		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18PA-TMS-60C	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-PMK-403	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-PMK-603	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-PMK-60C	
	ABS		 M12	 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-PMS-403	
	ABS		 M12	 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-PMS-603	
	ABS		 M12	 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-PMS-60C	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-NMK-403	
	ABS		 M12	 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18PA-NMS-403	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	LRR-M18PA-NMK-603	
	ABS		 M12	 IO-Link	1,500	-25 ... +65°C	IP67	LRR-M18PA-NMS-603	
	ABS			 IO-Link	1,000	-25 ... +65°C	IP67	LLR-M18PA-NMK-400	

OUTPUT

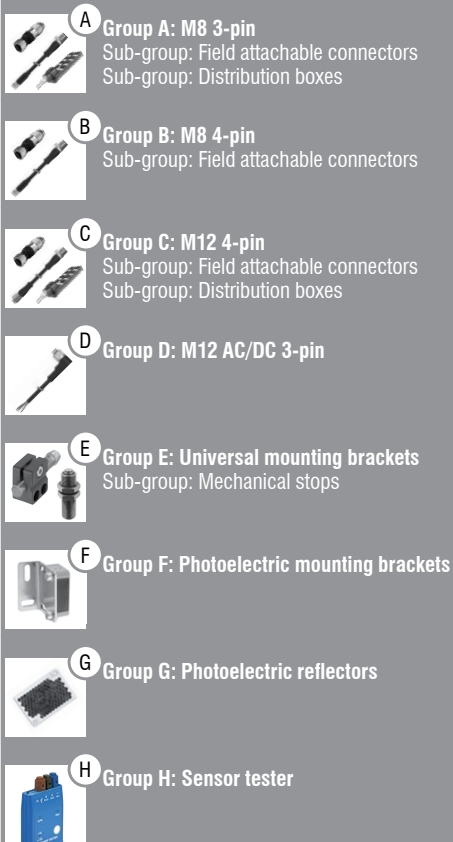


Reference key on page 196

OPERATING PRINCIPLE



ACCESSORIES



Go to page 298 for details

CYLINDRICAL M18

M18P/M18M SERIES


CYLINDRICAL M18 – M18P/M18M SERIES






















	30,000	M18	LED, red 630 nm
	30,000	M18	LED, red 630 nm
	30,000	M18	LED, red 630 nm
	250	M18	Pinpoint LED, red 640 nm
	250	M18	Pinpoint LED, red 640 nm
	1,200	M18	LED, red 630 nm
	7,000	M18	LED, red 630 nm
	30,000	M18	LED, red 630 nm
	30,000	M18	LED, red 630 nm



KEY ADVANTAGES

- ✓ First-class sensing ranges
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- ✓ Easy-to-mount special accessories for right-angle emission



	HOUSING MATERIAL	CABLE	CONNECTOR	 IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE *	ACCESSORIES (SEE PAGE 132)
	ABS		 M12	 IO-Link	1,000	-25 ... +65°C	IP67	LLR-M18PA-NMS-400	C F H
	ABS			 IO-Link	1,000	-25 ... +65°C	IP67	LLR-M18PA-NMK-603	F H
	ABS		 M12	 IO-Link	1,000	-25 ... +65°C	IP67	LLR-M18PA-NMS-603	C F H
	Stainless steel		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18MA-PMS-603	C F H
	Stainless steel		 M12	 IO-Link	700	-25 ... +65°C	IP67	LHR-M18MA-TMS-603	C F H
	Stainless steel		 M12	 IO-Link	1,500	-25 ... +65°C	IP67	LTR-M18MA-PMS-603	C F H
	Stainless steel		 M12	 IO-Link	1,500	-25 ... +65°C	IP67	LRR-M18MA-NMS-603	C F G H
	Stainless steel		 M12	 IO-Link	1,000	-25 ... +65°C	IP67	LLR-M18MA-NMS-400	C F H
	Stainless steel		 M12	 IO-Link	1,000	-25 ... +65°C	IP67	LLR-M18MA-NMS-603	C F H

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