



## Photoelectric Cylindrical

		H8	HE	DG	DM
dimensions		M8	M8	ø 10 mm	M12
background suppression		—	—	—	—
diffuse short distance		—	—	—	100 mm / 200 mm
diffuse long distance		—	—	—	300 mm
retroreflective		—	—	—	—
polarized		—	—	—	2 m
retroreflective for transparents		—	—	—	—
through beam		80 mm	0...1 m (10 kHz) 0...2 m (1 kHz)	2 m	4 m
switching frequency		50 kHz	1 kHz - 10 kHz	40 Hz	400 Hz - 250 Hz
LED emission		IR	IR	IR	IR / red (pol)
LASER emission		—	—	—	—
axial optic		●	●	●	●
90° optic		—	—	—	—
power supply	Vdc	●	●	●	●
	Vac	—	—	—	—
output type	NPN - NO	—	●	●	—
	NPN - NC	—	●	●	—
	PNP - NO	●	●	●	—
	PNP - NC	—	●	●	—
	NPN - NO / NC	—	—	—	●
	PNP - NO / NC	—	—	—	●
	NPN - NO + NC	—	—	—	—
	PNP - NO + NC	—	—	—	—
	DECOUT®	—	—	—	—
	relay	—	—	—	—
SCR	—	—	—	—	
temperature range		-25°C...+70°C	-25°C...+70°C	-25°C...+70°C	-25°C...+70°C
protection degree		IP67	IP67	IP67	IP67
housing material		stainless steel	stainless steel	plastic	nickel plated brass
active head material		PMMA	PMMA	PC	PMMA
output	cable	●	●	●	●
	plug	—	—	—	●
	pig-tail	—	—	—	—
ATEX		—	—	—	II3GD
other certifications		CE	CE	CE	UL US LISTED CE

FA	FA	FAL	FAL	SS/SP
				
M18 axial	M18 90°	M18 axial	M18 90°	M18
30...130 mm	—	20-100 (cl.1) 30-150 (cl.2)	25 - 130 (cl.2)	50 mm / 100 mm
100 mm	100 mm	400 mm	300 mm	100 mm
400 mm / 1 m	400 mm / 800 mm	—	—	400 mm / 800 mm
4 m	4 m	—	—	4 m
3 m	2 m	30 m (RL201)	30 m (RL201)	3 m
100...1,000 mm	100...1,000 mm	—	—	—
20 m	15 m	50 m	50 m	14 m
250 Hz - 1 kHz	250 Hz	800 Hz -1 kHz - 1.5 kHz	800 Hz -1 kHz 1.5 kHz	800 Hz -1 kHz 250 Hz
red / IR	red / IR	red laser	red laser	red / IR
—	—	●	●	—
●	—	●	—	●
—	●	—	●	●
●	●	●	●	●
—	—	—	—	—
—	—	—	—	●
—	—	—	—	●
—	—	—	—	●
—	—	●	—	●
—	—	●	—	●
●	●	●	●	—
●	●	●	●	—
—	—	—	—	—
—	—	—	—	—
—25°C...+70°C	—25°C...+70°C	—15°C...+55°C	—15°C...+55°C	—25°C...+70°C
IP67	IP67	IP67	IP67	IP67
plastic / metallic	plastic / metallic	plastic / metallic	plastic / metallic	plastic / metallic
PC / PMMA	PC / PMMA	glass / PMMA	glass / PMMA	PMMA
●	●	●	●	●
●	●	●	●	●
—	—	—	—	—
II3GD	II3GD	II3GD	II3GD	II3GD
				



## Photoelectric

## Cylindrical

		MS/MP	SA	MV/MQ
dimensions		M18	M18	M18
background suppression		50 mm / 100 mm	—	50 mm / 100 mm
diffuse short distance		100 mm / 200 mm	150 mm	100 mm / 200 mm
diffuse long distance		400 mm	400 mm	400 mm / 800 mm
retroreflective		4 m	6 m	4 m
polarized		3 m	3 m	3 m
retroreflective for transparents		—	—	—
through beam		16 m / 32 m	—	16 m / 32 m
switching frequency		1 kHz - 80 - 30 Hz	1 kHz	25 Hz
LED emission		red / IR	red / IR	IR / red
LASER emission		—	—	—
axial optic		•	•	•
90° optic		•	—	•
power supply	Vdc	•	•	—
	Vac	—	—	•
output type	NPN - NO	—	—	—
	NPN - NC	—	—	—
	PNP - NO	—	—	—
	PNP - NC	—	—	—
	NPN - NO / NC	—	•	—
	PNP - NO / NC	—	•	—
	NPN - NO + NC	—	—	—
	PNP - NO + NC	—	—	—
	DECOUT	•	—	—
	relay	—	—	—
	SCR	—	—	•
temperature range		-25°C...+70°C	-25°C...+70°C	-25°C...+70°C
protection degree		IP67	IP65	IP67
housing material		plastic / metallic	plastic / metallic	plastic
active head material		PMMA	PMMA	PMMA
output	cable	•	•	•
	plug	•	•	•
	pig-tail	—	—	—
ATEX		II3GD	—	—
other certifications				