



Reflection light scanner with background suppression

ML4.1-8-H-..-RT/95/110

with M8, 4-pin metal connector



- ◆ Detection range 20 mm, 40 mm or 60 mm
- ◆ Miniature design
- ◆ Push-pull output
- ◆ Visible red light
- ◆ Precise background suppression
- ◆ Very small black-white difference

For suitable cable sockets, reflectors and mounting aids refer to chapter "accessories".

Ordering code		ML4.1-8-H-20-RT/95/110	ML4.1-8-H-40-RT/95/110	ML4.1-8-H-60-RT/95/110
Detection range	7 ... 20 mm	◆		
	10 ... 40 mm		◆	
	10 ... 60 mm			◆
Sensor range max.	7 ... 25 mm	◆		
	10 ... 50 mm		◆	
	10 ... 80 mm			◆
Background suppression	starts from 25 mm	◆		
	starts from 50 mm		◆	
	starts from 80 mm			◆
Black/white difference (6 %/90 %)	approx. 1 mm	◆		
	approx. 3 mm		◆	
	approx. 20 mm			◆
Light source	LED	◆	◆	◆
Light type	Red, alternating light	◆	◆	◆
Angle of divergence	approx. 6 °		◆	◆
	approx. 8 °	◆		
Diameter of the light spot	3 mm	◆		
	4 mm		◆	
	6 mm			◆
Ambient light limit	100000 Lux	◆	◆	◆
Approvals	CE	◆	◆	◆
Standard conformity	EN 60947-5-2	◆	◆	◆
Operating display	LED, green Power on	◆	◆	◆
Function display	LED yellow, lights up when light beam is free. Flashes when falling short of the stability control	◆	◆	◆
Operating voltage	10 ... 30 V DC	◆	◆	◆
Ripple	10 %	◆	◆	◆
No-load supply current	25 mA	◆	◆	◆
Signal output	Push-pull output, short-circuit proof, protected against reverse polarity	◆	◆	◆
Switching type	Light/dark on selectable electrically switchable	◆	◆	◆
Switching voltage	max. 30 V DC	◆	◆	◆
Switching current	max. 200 mA	◆	◆	◆
Switching frequency	500 Hz	◆	◆	◆
Response time	1 ms	◆	◆	◆
Ambient temperature	-20 ... +60 °C			◆
	-20 ... 60 °C	◆	◆	
Storage temperature	-20 ... 75 °C	◆	◆	◆
Protection degree	IP65	◆	◆	◆
Connection type	4-pin, M8 connector	◆	◆	◆
Housing	ABS GV5	◆	◆	◆
Light exit	Glass	◆	◆	◆
Mass	15 g	◆	◆	◆

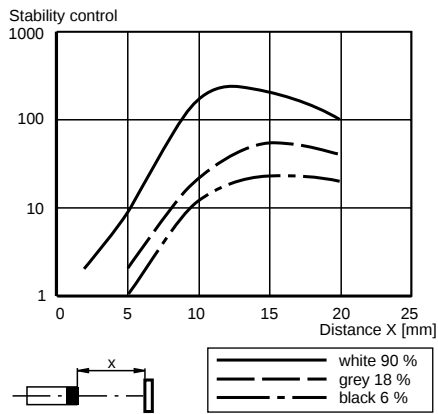


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Diagrams

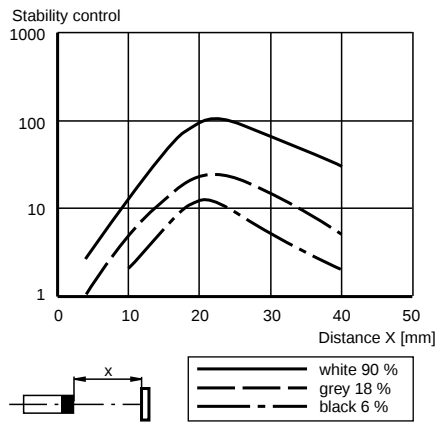
Relative received light strength

ML4.1-8-H-20-RT



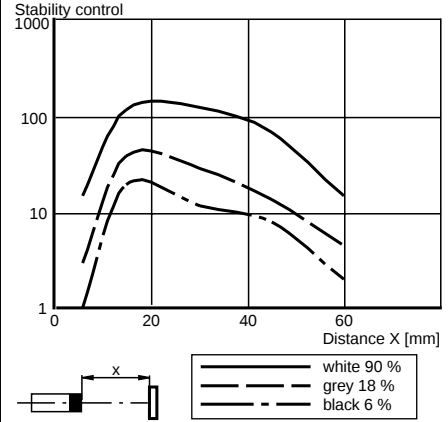
Relative received light strength

ML4.1-8-H-40-RT



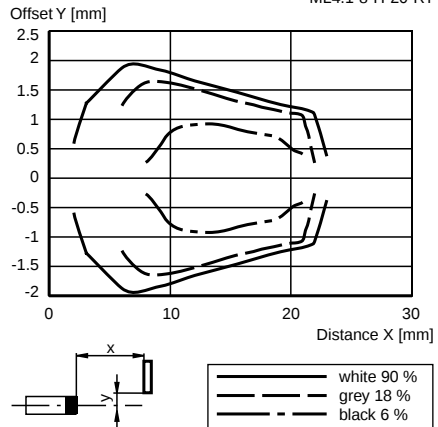
Relative received light strength

ML4.1-8-H-60-RT



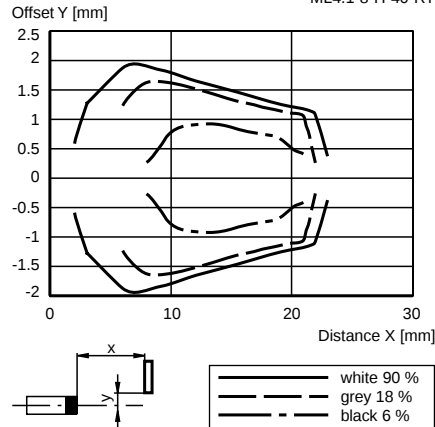
Characteristic response curve

ML4.1-8-H-20-RT



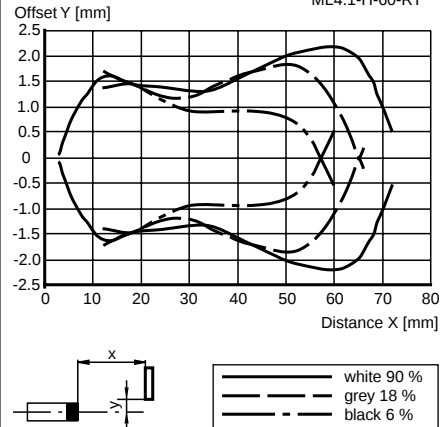
Characteristic response curve

ML4.1-8-H-40-RT



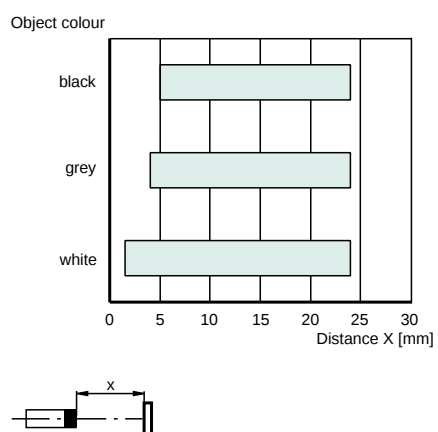
Characteristic response curve

ML4.1-8-H-60-RT



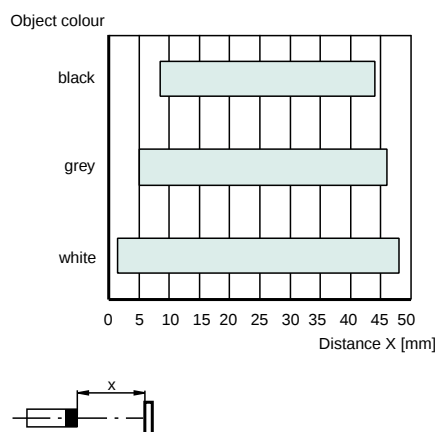
Detection ranges

ML4.1-8-H-20-RT



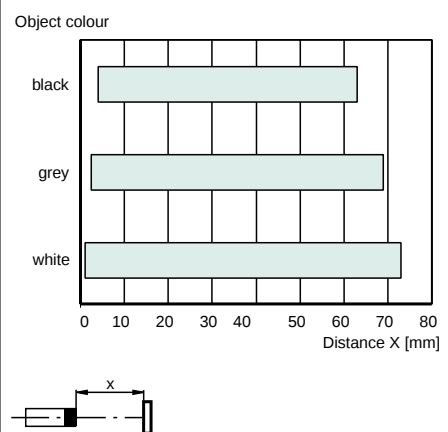
Detection ranges

ML4.1-8-H-40-RT

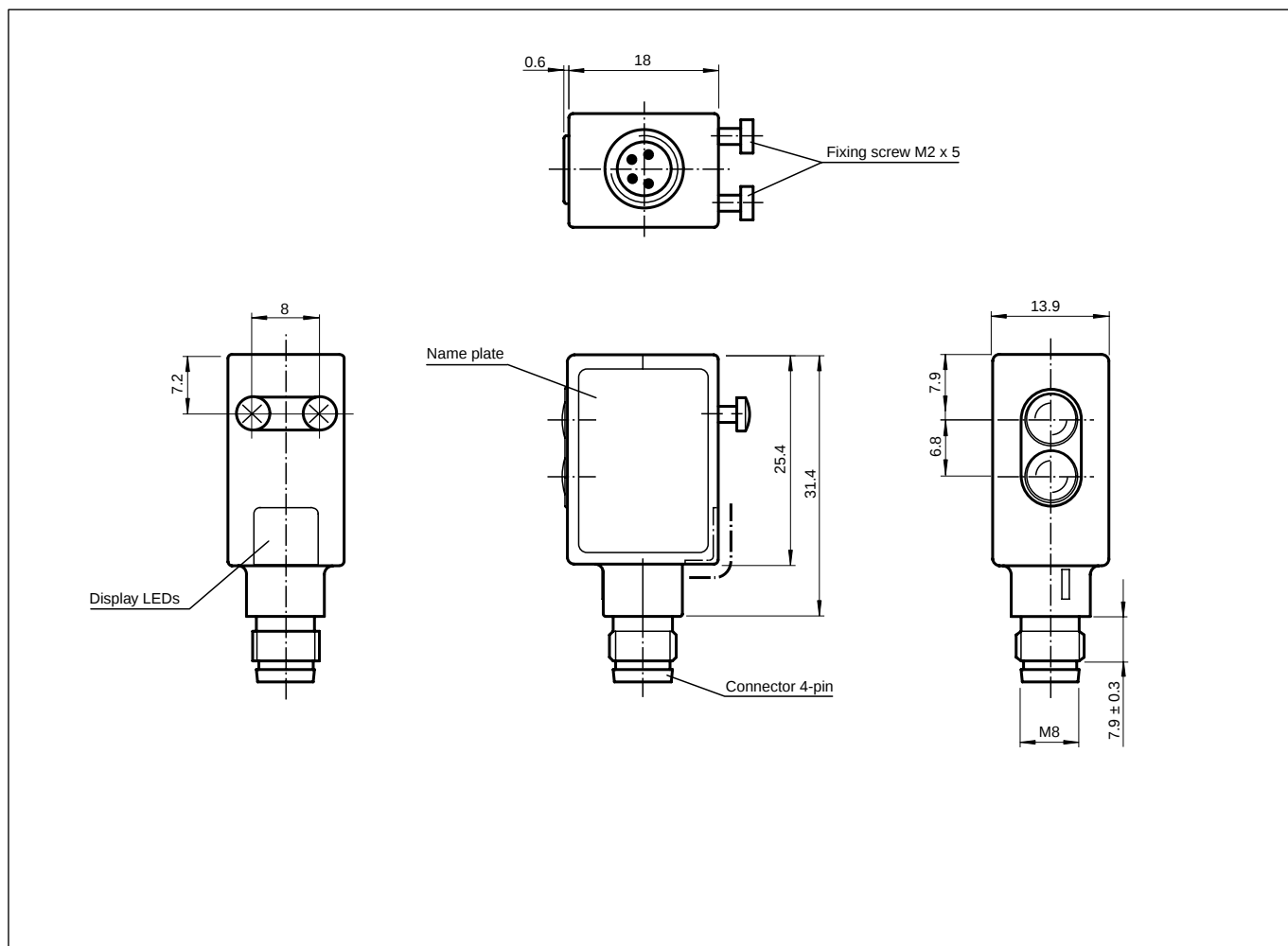


Detection ranges

ML4.1-8-H-60-RT



Dimensions



Electrical Connection

