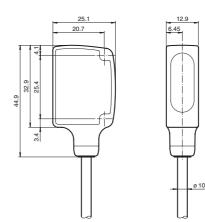


Dimensions



Model Number

MLE76000-54-G/25/110/115/123

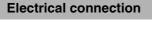
Retroreflective sensor with fixed cable

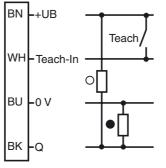
Features

- EHEDG-certified sensors with hygie-٠ nic design
- Stainless steel version, especially ٠ suitable for applications in the food industry
- Integrated mounting solution is part ٠ of the EHEDG certificate
- Pressure fitted front panel without the use of adhesives
- Reliable and leak-proof housing, even with repeated thermal shocks

Product information

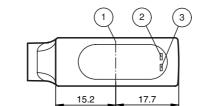
The EHEDG certificate of compliance for the MLE76 series confirms that this sensor system is easy to clean and ensures a high degree of microbiological safety. This is possible through the integration of various mounting adapters in the overall sensor concept and through the adaptation of all sensor properties to the strict hygiene requirements in the product-contact area. All sensor materials are non-toxic, non-absorbent and highly resistant to corrosion. The rounded stainless steel housing plus mounting adapters have no edges and therefore allow more efficient cleaning without dismounting the sensor.







Indicators/operating means



1	Optical axis		
2	Operating display	green	
3	Signal display	yellow	

Subject to modifications without notice Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

Copyright Pepperl+Fuchs Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

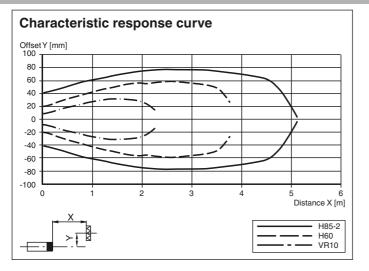


1

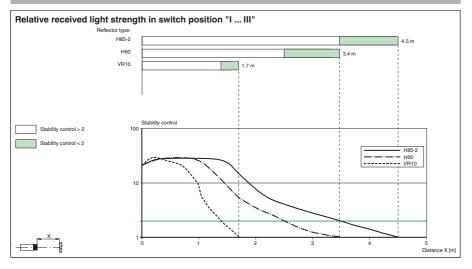
Technical data			
General specifications			
Effective detection range		0 3.2 m in TEACH mode 0 4 m by operating mode "N"	
Reflector distance		0 3.2 m in TEACH mode 0 4 m by operating mode "N"	
Threshold detection range		5.1 m	
Reference target		H85-2 reflector	
Light source		LED	
Light type		modulated visible red light , 660 nm	
Angle deviation		max. ± 1°	
Diameter of the light spot		approx. 40 mm at detection range 1 m	
Angle of divergence		1.7 °	
Ambient light limit		40000 Lux	
Indicators/operating means			
Operating display		LED green, statically lit Power on , Undervoltage indicator: Green LED, pulsing (approx. 0.8 Hz) , short-circuit : LED green flashing (approx. 4 Hz)	
Function display		LED yellow: switching state ; Stability control ; Teach-In	
Controls		none	
Contrast detection levels		 10 % - clean, water filled PET bottles 18 % - clear glass bottles 40 % - colored glass or opaque materials adjustable by external TEACH-IN switch 	
Electrical specifications			
Operating voltage	UB	10 30 V DC	
Ripple		max. 10 %	
No-load supply current	I ₀	< 20 mA at 24 V DC	
Input			
Function input		Ext. Teach-In input (ET)	
Output			
Switching type		light on	
Signal output		1 push-pull output, short-circuit protected, reverse polarity pro- tected	
Switching voltage		max. 30 V DC	
Switching current		max. 100 mA	
Switching frequency	f	1 kHz	
Response time		500 μs	
Ambient conditions			
Ambient temperature		-20 60 °C (-4 140 °F)	
Storage temperature		-40 75 °C (-40 167 °F)	
Mechanical specifications			
Protection degree		IP67 / IP69K	
Connection		2 m fixed cable	
Material			
Housing		Stainless steel 1.4404 / AISI 316L	
Optical face		РММА	
Mass		80 g	
Compliance with standards and o ves	directi-		
Standard conformity			
Product standard		EN 60947-5-2:2007	
Approvals and certificates			
UL approval		cULus	
CCC approval		Products with a maximum operating voltage of ≤36 V do not	

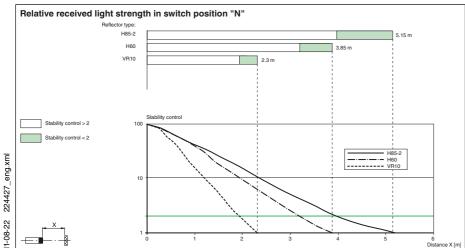


Curves/Diagrams



Curves/Diagrams





Additional information

Ext. TEACH input:

It is possible to trigger a TEACH-IN process and to select the operating mode by the external connecting of a High pulse of a certain width:

I:	50 ms (30 ms - 80 ms)
II:	150 ms (120 ms - 180 ms)
III:	250 ms (220 ms - 280 ms)
N:	350 ms (320 ms - 380 ms)



Operating mode	LED green	LED yellow	Time/ Frequency	Explanations/ Remarks
Teach-In	flashes	flashes	2/s	Slow equiphase flashing: TEACH-IN process is being executed. Max. duration of the TEACH-IN process: 2 s
	off	on	250 ms	TEACH-IN process correctly finished. Operating mode is changed.
	flashes	flashes	8/s	Rapid alternating flashing: TEACH-IN process not correctly executed.(e.g. receiver signal not sufficient, sensor not correctly aligned with reflector)
				Status is terminated by turning switch to position N.
Ν	on	flashes	4/s	In operating mode "N" aligned with reflector. Reflector detected without functional reserve.
	on	on	-	In operating mode "N" aligned with reflector. Reflector detected with functional reserve (recommended).
I	on	on	-	Contrast detection 10 % is activated. (e.g. clean PET bottles filled with water)
II	on	on	-	Contrast detection 18 % is activated. (e.g. bottles made of clear glass)
III	on	on	-	Contrast detection 40 % is activated. (e.g. tinted glass or intransparent materials)

Instructions for the TEACH-IN mode:

4

