Photoelectrics Through-beam, Industrial Door Market Type PMT20.M, Mute Input





- Range: 20 m
- Modulated, infrared light
- LED-indication for power supply ON (emitter) and target detected (receiver)
- Multi supply voltage:
 24 VDC and 24 VAC, 50/60 Hz
- 25 x 65 x 81 mm reinforced PC housing, IP 67
- CE, UL325 and UL508 approved



Product Description

Through-beam photoelectric switch. Range up to 20 m. Immune to ambient light. Precise detection through narrow beam. LED-indication. Protection degree IP 67. Screw terminal connection. 25 x 65 x 81 mm plastic

housing. PG 13.5 or 1/2" NPT cable gland. With Mute Input on the transmitter the sensor fullfill EN12978

Ordering Key

PMT20 R G M

Type —		
5.		
Receiver ————		-
Cable gland ————		
· ·		
Mute Input ————	•	

Type Selection

Housing	Ordering no.	Ordering no.		
W x H x D	Receiver without timer	Emitter		
25 x 65 x 81 PG 13.5 cable gland 1/2" NPT cable gland	PMT 20R GM PMT 20R IM	PMT 20 GM PMT 20 IM		

Specifications Emitter

specifications Emilier					
Rated operational volt. (U _B) AC: 45 to 65 Hz	24 VDC ± 20% 24 VAC ± 20%				
Rated operational power	≤ 1 W (1.2 VA)				
Light source Light type Optical angle	GaAlAs LED, 880 nm Infrared, modulated ± 2°				
Indication Power supply ON	LED, green				
Output function	Switch selectable, make or break switching				

Specifications Receiver

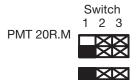
Rated operational volt. (U _B) AC: 45 to 65 Hz	24 VDC ± 20% 24 VAC ± 20%
Rated operational power (Relay ON)	≤ 2 W (2.5 VA)
Output Contact ratings (AgCdO) Resistive loads AC 1 DC 1 Small inductive loads AC 15 DC 13 Mechanical life Electrical life	
Dielectric voltage	2 kVAC (rms) (cont./supply)
Sensitivity	Adjustable, single turn pot.
Optical angle	± 2°
Rated operating dist. (S _n) (0 to 5,000 lux)	20 m
	20 Hz ≤ 20 ms ≤ 20 ms
Power ON delay (t _v)	≤ 300 ms (typ. 100 ms)
Output function	Mute function



General Specifications

	III (IEC 60664/60664A,			
	60947-1) 3 (IEC 60664/60664A, 60947-1)			
	IP 67 (IEC 60529, 60947-1)			
	-25° to +55°C (-13° to +131°F)			
	-30° to +80°C (-22° to +176°F)			
	10 to 150 Hz, 0.5 mm/7.5 g (IEC 60068-2-6) 2 x 1 m & 100 x 0.5 m (IEC 60068-2-32)			
	PC, grey, reinforced			
	PC, black			
	PC, black			
	PA, black, reinforced			
	Steel, black			
	5 x 2 x 1 mm ²			
	PG 13.5 or 1/2" NPT for cable 6 to 10 mm			
	110 g			
	115 g			
c RL us	UL325, CSA-C22.2 No.247			
c (L)us	UL508			
	Yes			
	~			

Selection of Function

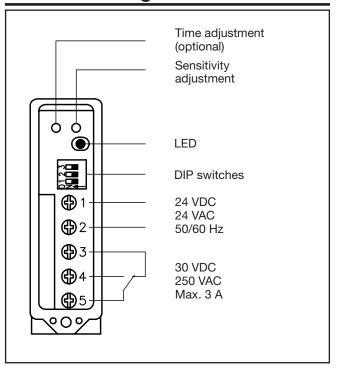


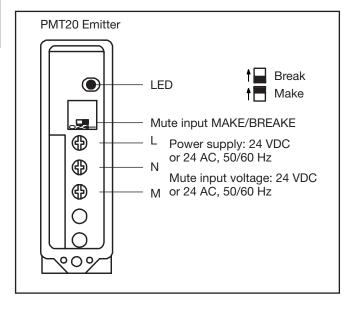
- 1 Break switching
- 2 Make switching

Don't care

Upper postion ON (Mode 1) Lower position OFF (Mode 0)

Connection Diagram





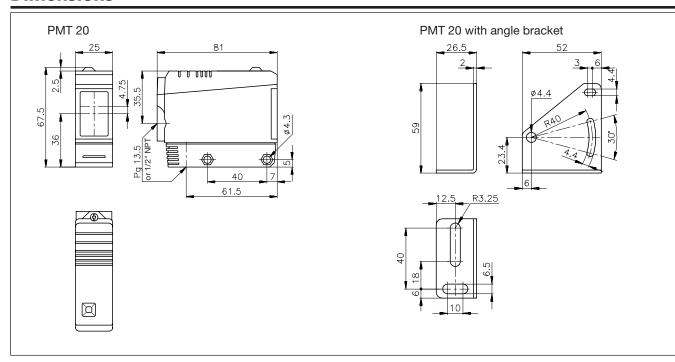


Operation Diagram

t = Time delay tv = Power ON delay

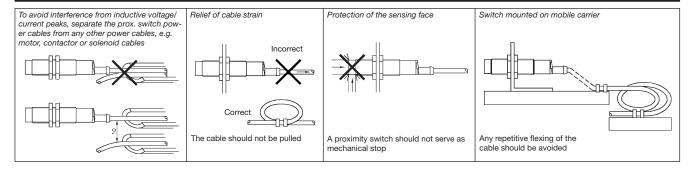
Power supply									
Target present									
Object present									
Func 1. Output ON	⊢tv-								
Func 2. Output ON						⊢tv⊣			
Func 3. Output ON	⊢tv-	<u>⊢ t ⊣</u>			1				⊢ t ⊣
Func 4. Output ON		⊢ t ⊣		Ht- Ht-		⊢tv⊣		Ft- Ft-	⊢ t ⊣
Func 5. Output ON	⊢tv⊣		⊢ t ⊣	+t-			⊢ t ⊣	⊦t- ⊢ t ⊣	
Func 6. Output ON			⊢ t ⊣	⊦t-		⊢tv⊣	⊢ t ⊢	⊢ t ⊢	
Func 7. Output ON	⊢tv⊣		<u></u> ⊢ t ⊣	— ⊢ t –		⊢tv⊣	_	<u></u> ⊢ ⊢ t ⊣	
Func 8. Output ON			⊢ t ⊣	⊢ ⊢ t ⊣			⊢ t ⊣	⊢ ⊢ t ⊣	
Func 9. Output ON	⊢tv⊣	_ ⊢ t ⊣		⊢ ⊢ t ⊣		⊢tv⊣		<u> </u>	⊢ t ⊣
Func 10. Output ON		⊢ t ⊣		⊢ ⊢ t ⊣				<u>⊢</u> ⊢ t ⊣	⊢ t ⊣

Dimensions





Installation Hints



Delivery Contents

- Photoelectric switch: PMT 20
- Cable gland
- Installation instruction
- Mounting bracket
- Packaging: Corrugated cardboard (environmentally friendly recycling material)

Accessories

 MB02 (longer mounting bracket), please refer to "Accessories"