



	M18-L PLASTIC VERSIONS	M18-L METALLIC VERSIONS
Power supply:	10 ... 30 VDC (limit values)	
Ripple:	2 Vpp max.	
Current consumption (output current excluded):	35 mA max. (M18-LP/LD/LT (receiver)) 30 mA max. (M18-LT (emitter))	
Outputs:	N.O. and N.C.; PNP or NPN (short-circuit protection)	
Output current:	100 mA max.	
Output saturation voltage:	2 V max.	
Response time:	333 µs	
Switching frequency:	1.5 kHz	
Indicators:	OUTPUT LED (YELLOW) / POWER ON LED (GREEN)	
Setting:	Sensitivity trimmer	
Operating mode:	LIGHT mode on N.O. output / DARK mode on N.C. output (M18-LT...) DARK mode on N.O. output / LIGHT mode on N.C. output (M18-LP/LD)	
Operating temperature:	-10 ... 50 °C	
Storage temperature:	-25 ... 70 °C	
Insulating strength:	500 VAC 1 min., between electronics and housing	
Insulating resistance:	>20 MΩ 500 VDC, between electronics and housing	
Operating distance (typical values):	M18-LP...: 0.1 ... 16 m on M18-RF48 M18-LD...: 0 ... 35 cm M18-LT: 0 ... 60 m	
Emission type:	RED LASER: Class 1 EN 60825-1 (1994) Class II CDRH 21 CFR PART 1040.10 Max. power ≤ 1 mW; Pulse = 4.5 µs; λ = 630...680nm; Frequency =25 kHz	
Ambient light rejection:	According to EN 60947-5-2	
Vibrations:	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)	
Shock resistance:	11 ms (30 G) 6 shock for every axis (EN60068-2-27)	
Housing material:	PBT	Nickel plated brass
Lens material:	PMMA	
Mechanical protection:	IP67	
Connections:	2 m cable Ø 4 mm / M12 - 4 pole connector	
Weight:	75 g. max. cable vers./25 q. max. connector vers.	110 g. max. cable vers./60 q. max. connector vers.



Panasonic Electric Works Europe AG  
Rudolf-Diesel-Ring 2  
83607 Holzkirchen, Germany  
Tel.: +49(0)8024-648-0  
Fax: +49(0)8024-648-111  
[www.panasonic-electric-works.com](http://www.panasonic-electric-works.com)  
Order number: M18LALeafV10EN  
COPYRIGHT © 2007 All Right Reserved