## **Light Grids BX80 Series**



### Sender and Receiver - Object Detection BX80 Series

- 70mm detection height
- Operating distance up to 2m
- Adjustable sensitivity
- NPN or PNP with N.O./N.C. selectable output
- Sender and receiver LED status indicators
- IP67 rated



Light Grids BX80 Series Selection Chart									
Part Number	Price	Function	Beam Resolution	Detection Height	Operating Distance	Output	Logic	Connection	Wiring
BX80B-1N-0H	\$242.00	Receiver	6mm [0.23 in]	70mm [2.75 in]	0.3 - 2m [0.98 - 6.56 in]	N.O./N.C. selectable	NPN	4-pin M12 quick- disconnect	Figure 1
BX80B-1P-0H	\$242.00	Receiver					PNP		Figure 2
BX80S-10-0H	\$204.00	Sender					Receiver dependent		Receiver dependent

Purchase a Receiver and Sender for a complete set. Purchase cable separately.

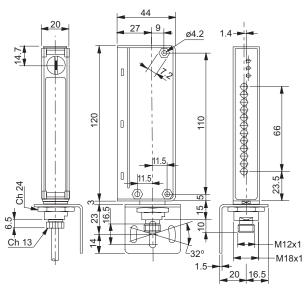
Light Grids BX80 Series Specifications						
Туре	Through-Beam					
Beam Resolution	6mm [0.23 in]					
Sensing Distance	0.3-2 m [11.81-78.74 in]					
Detection Height	70mm [2.75 in]					
Number of beams	12					
Emission	IR 880nm					
Sensitivity	Receiver - Fixed / Sender - Adjustable					
Output Type	PNP or NPN					
Operating Voltage	12 - 24 VDC					
No-load Supply Current	Sender: 100mA, Receiver: 50mA					
Operating (Load) Current	100mA					
Off-state (Leakage) Current	10μΑ					
Voltage Drop	≤ 1.2V					
Switching Frequency	50Hz					
Ripple	≤10%					
Time Delay Before Availability (tv)	500ms					
Short-Circuit Protection	Yes					
Operating Temperature	-25 to 50°C [-13 to 122°F]					
Protection Degree (DIN 40050)	IP67					
Sender LED Indicators - Switching Status	Green (power), Red (sync. alarm), Yellow (area occupied)					
Receiver LED Indicators - Switching Status	Green (power), Red (alignment alarm), Yellow (output energized)					
Housing Material	PBT (Polybutylene terephthalate)					
Lens Material	PC (Polycarbonate)					
Shock/Vibration	Acc. To IEC 60947-5-2					
Tightening Torque	25Nm (18.44 lb-ft) max.					
Weight	300g [10.58 oz]					
Agency Approvals	UL Listed E187310, CE					

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

# **Light Grids BX80 Series**

#### **Dimensions**

(mm)



See our website: www.AutomationDirect.com for complete Engineering drawings.

### Wiring diagrams

Figure 1

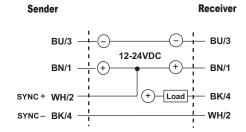
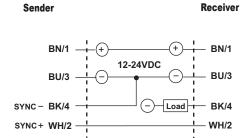


Figure 2



#### **Connectors**

Switching Element Function					
	Through-beam and Reflective Models	Diffuse Reflective Models			
Light-on	N.C.	N.O.			
Dark-on	N.O.	N.C.			

