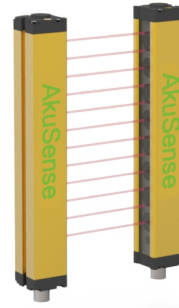


Standard Type

BML Series

Area



Appearance	
Sectional area	30X30mm
NO.of beams	4~32
Protection height	50~1240mm
Protection distance	0.3~3m
Beam pitch	10/14/20/25/30/40mm
Min. sized detectable objects	> ϕ 14/ ϕ 19/ ϕ 25/ ϕ 30/ ϕ 35/ ϕ 45mm, opaque
Supply voltage	24V DC \pm 10%
Current consumption	< 200mA
Power consumption	4~6W
Output type	NPN/PNP
Synchronization type	line synchronization
Response time	\leq 15ms
Light source	Infrared LED (Modulated)
Protective circuit	Reverse polarity, over-load, output short circuit protection
Ambient temperature	-10~+55°C (No condensation, no freezing)
Ambient humidity	35~85% RH
Anti-interference ability	10000Lux
Insulation resistance	Above 50M Ω (DC 500V megger)
Shock resistance	10~150Hz, double amplitude; 1.5mm, in each of x, y and z direction for 2 hours
Vibration resistance	Acceleration: 500m/s ² (Approx:50G); x, y and z direction (3 times each)
Degree of protection	IP65
Material	Housing: Aluminum alloy; Transmissive cover: Polyester; End cover: Reinforced nylon
Connection	M12 connector
Accessories	Cable length 3m, female (Customization available)

BML10

Beam pitch	10mm							
Min. sized detectable objects	> ϕ 14mm, opaque							
Protection distance	0.3~3m							
NO.of beams	6	8	10	12	14	.....	32
Protection height	50mm	70mm	90mm	110mm	130mm	.....	310mm
Light curtain height	106mm	126mm	146mm	166mm	186mm	.....	366mm
Model NO.	NPN NC	BML10-T0603NC	BML10-T0803NC	BML10-T1003NC	BML10-T1203NC	BML10-T1403NC	BML10-T3203NC
	PNP NC	BML10-T0603PC	BML10-T0803PC	BML10-T1003PC	BML10-T1203PC	BML10-T1403PC	BML10-T3203PC

Remarks: maximum number of optical axes 70 axes.

BML14

Beam pitch	14mm							
Min. sized detectable objects	> ϕ 19mm, opaque							
Protection distance	0.3~3m							
NO.of beams	6	8	10	12	14	.....	32
Protection height	70mm	98mm	126mm	154mm	182mm	.....	434mm
Light curtain height	128mm	156mm	184mm	212mm	240mm	.....	492mm
Model NO.	NPN NC	BML14-T0603NC	BML14-T0803NC	BML14-T1003NC	BML14-T1203NC	BML14-T1403NC	BML14-T3203NC
	PNP NC	BML14-T0603PC	BML14-T0803PC	BML14-T1003PC	BML14-T1203PC	BML14-T1403PC	BML14-T3203PC

BML20

Beam pitch	20mm							
Min. sized detectable objects	> ϕ 25, opaque							
Protection distance	0.3~3m							
NO.of beams	4	6	8	10	12	... ..	32
Protection height	60mm	100mm	140mm	180mm	220mm	... ..	620mm
Light curtain height	115mm	155mm	195mm	235mm	275mm	... ..	675mm
Model NO.	NPN NC	BML20-T0403NC	BML20-T0603NC	BML20-T0803NC	BML20-T1003NC	BML20-T1203NC	BML20-T3203NC
	PNP NC	BML20-T0403PC	BML20-T0603PC	BML20-T0803PC	BML20-T1003PC	BML20-T1203PC	BML20-T3203PC

Remarks: maximum number of optical axes 72 axes.

BML25

Beam pitch	25mm							
Min. sized detectable objects	> ϕ 30, opaque							
Protection distance	0.3~3m							
NO.of beams	6	8	10	12	14	... ..	32
Protection height	125mm	175mm	225mm	275mm	325mm	... ..	775mm
Light curtain height	182.5mm	232.5mm	282.5mm	332.5mm	382.5mm	... ..	832.5mm
Model NO.	NPN NC	BML25-T0603NC	BML25-T0803NC	BML25-T1003NC	BML25-T1203NC	BML25-T1403NC	BML25-T3203NC
	PNP NC	BML25-T0603PC	BML25-T0803PC	BML25-T1003PC	BML25-T1203PC	BML25-T1403PC	BML25-T3203PC

BML30

Beam pitch	30mm							
Min. sized detectable objects	> ϕ 35, opaque							
Protection distance	0.3~3m							
NO.of beams	4	6	8	10	12	... ..	32
Protection height	90mm	150mm	210mm	270mm	330mm	... ..	930mm
Light curtain height	150mm	210mm	270mm	330mm	390mm	... ..	990mm
Model NO.	NPN NC	BML30-T0403NC	BML30-T0603NC	BML30-T0803NC	BML30-T1003NC	BML30-T1203NC	BML30-T3203NC
	PNP NC	BML30-T0403PC	BML30-T0603PC	BML30-T0803PC	BML30-T1003PC	BML30-T1203PC	BML30-T3203PC

BML40

Beam pitch	40mm							
Min. sized detectable objects	> ϕ 45, opaque							
Protection distance	0.3~3m							
NO.of beams	4	6	8	10	12	... ..	32
Protection height	120mm	200mm	280mm	360mm	440mm	... ..	1240mm
Light curtain height	185mm	265mm	345mm	425mm	505mm	... ..	1305mm
Model NO.	NPN NC	BML40-T0403NC	BML40-T0603NC	BML40-T0803NC	BML40-T1003NC	BML40-T1203NC	BML40-T3203NC
	PNP NC	BML40-T0403PC	BML40-T0603PC	BML40-T0803PC	BML40-T1003PC	BML40-T1203PC	BML40-T3203PC

Remarks: maximum number of optical axes 72 axes.

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact

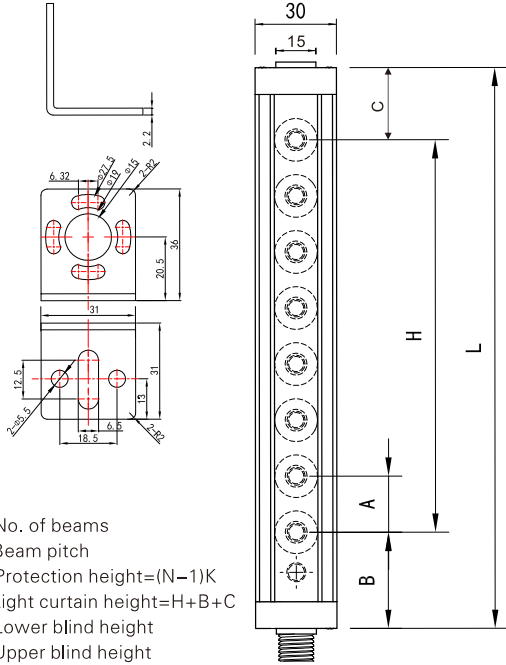
Guidance

- Light curtains
- Standard type
- Top-emitting type
- Side-emitting type
- Waterproof type
- Measuring type
- Economical type
- Safety Light Curtain
- Beam pitch 10mm
- Beam pitch 20mm
- Beam pitch 30mm
- Beam pitch 40mm
- LIDAR scanner
- TOF LIDAR scanner
- MINI LIDAR scanner
- Navigation LIDAR

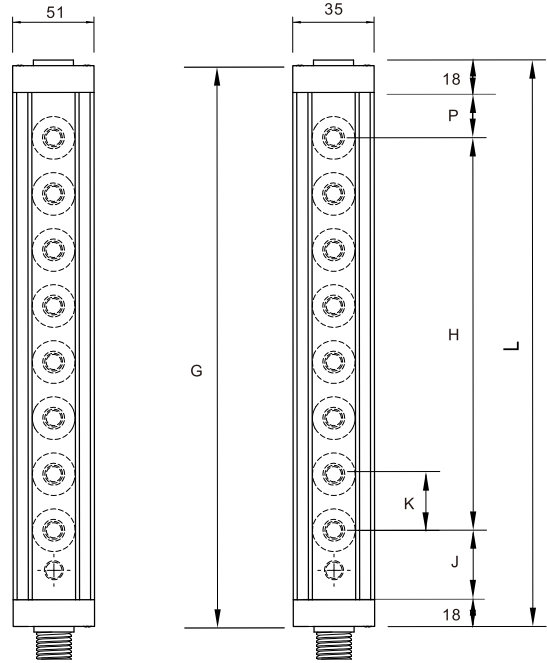
Standard Type

BML Series

Area



N: No. of beams
 K: Beam pitch
 H: Protection height = (N-1)K
 L: Light curtain height = H+B+C
 B: Lower blind height
 C: Upper blind height



When the detection distance is more than 10m and the number of optical axes exceeds 32 axes:

H: Detection height
 $H = (N-1) * k$
 L: Light curtain height
 N: No. of beams
 $L = P + H + J + 18 + 18$

BML10

K: 10
 H: (N-1)*10
 L: H+56
 B: 41
 C: 15

BML14

K: 14
 H: (N-1)*14
 L: H+58
 B: 41
 C: 17

BML20

K: 20
 H: (N-1)*20
 L: H+55
 B: 35
 C: 20

BML25

K: 25
 H: (N-1)*25
 L: H+57.5
 B: 35
 C: 22.5

BML30

K: 30
 H: (N-1)*30
 L: H+60
 B: 35
 C: 25

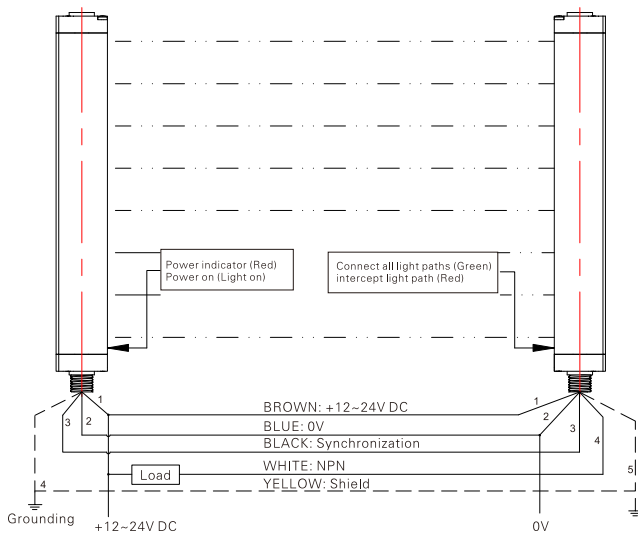
BML40

K: 40
 H: (N-1)*40
 L: H+65
 B: 35
 C: 30

K	14	20	25	30	40
P	7	10	12.5	15	20
J	32	25	25	25	25

Connection Diagram

NPN



PNP

