SMNA-SERIES / SMNB-SERIES

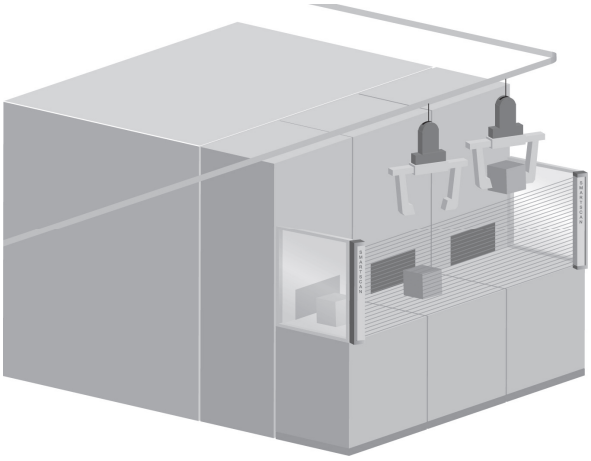
AREA SENSORS LIGHT CURTAIN

SMARTSCAN

● คุณสมบัติ

- อุปกรณ์ตรวจจับวัตถุแบบม่านลำแสง
- มีระยะห่างระหว่าง Beam Pitch 2 แบบ 25 mm. (SMNB-Series) และ 40 mm. (SMNA-Series)
- สามารถเลือกย่านการตรวจจับได้สูงสุด 7 M.
- สามารถเลือกจำนวน Beam สูงสุด 4-44 Beam (SMNA-Series) และ 4-64 Beam (SMNB-Series)
- มีเอาท์พุท 2 แบบให้เลือก
  - จำนวนเอาท์พุท 2 NPN (NO+NC) สำหรับ SMNA-XX(L) และ SMNB-XX(L)
  - จำนวนเอาท์พุท 1 NPN, 1 PNP สำหรับ SMNA-XX(P) และ SMNB-XX(P)
- โครงสร้างบางกระทัดรัด ทำให้ประหยัดพื้นที่ในการติดตั้ง
- มี LED แสดงสถานะการทำงาน
- ระดับป้องกัน IP 65
- มาตรฐาน CE LVD

● APPLICATION



- **Object Sensing**
- **Object Detecting**
- **Auto Operating Sensing**
- **Parking Equipment Detection**
- **Component Pickup Detection**
- **Packing Line**
- **Packing Line Orientation Control**
- **Object Size Discriminate**

● ข้อมูลทางเทคนิค

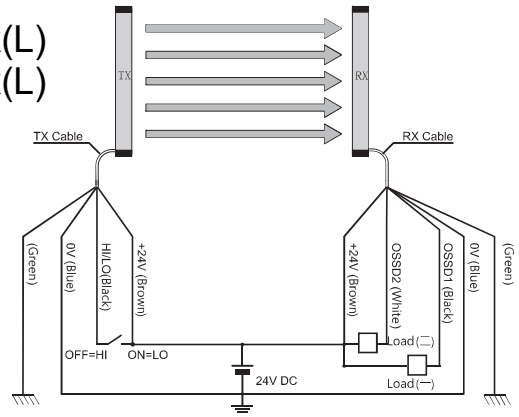
Model	SMNA-XX (P)	SMNA-XX(L)
	STANDARD RANGE	LONG RANGE
Power Supply	24 VDC ±20% reg	
Current Consumption	Basic Module 40 mA, 8 mA for each extra beam, the maximum current consumption 400 mA	
Light Type	Antithesis infrared rays detector : infrared ray, 880 mm	
Number of Beam	4 - 44	
Beam Pitch	40 mm.	
Detection Zone	120 mm. to 1720 mm.	
Rang	0.5 M. to 3 M.	1 M. to 7 M.
Response Time	20 mSec (Relay switching time not included)	
Output	2 Output : 1 NPN, 1 PNP	2 Output : 2 NPN (NO+NC)
Status Indicators	TX - Yellow (Power ON) RX - Red OSSDs (OFF) RX - Green OSSDs (ON)	
Operating Temperature	-20 ˚C to 85 ˚C	
Enclosure Ration	IP 65	
Connection Cable	M12 Terminal Type (2M. x 2 Cable Wire)	
Classification	Perform CE LVD demand, without safty classify	

Model	SMNB-XX (P)	SMNB-XX(L)
	STANDARD RANGE	LONG RANGE
Power Supply	24 VDC ±20% reg	
Current Consumption	Basic Module 40 mA, 8 mA for each extra beam, the maximum current consumption 400 mA	
Light Type	Antithesis infrared rays detector : infrared ray, 880 mm	
Number of Beam	4 - 64	
Beam Pitch	25 mm.	
Detection Zone	120 mm. to 1720 mm.	
Rang	0.5 M. to 3 M.	1 M. to 7 M.
Response Time	20 mSec (Relay switching time not included)	
Output	2 Output : 1 NPN, 1 PNP	2 Output : 2 NPN (NO+NC)
Status Indicators	TX - Yellow (Power ON) RX - Red OSSDs (OFF) RX - Green OSSDs (ON)	
Operating Temperature	-20 ˚C to 85 ˚C	
Enclosure Ration	IP 65	
Connection Cable	M12 Terminal Type (2M. x 2 Cable Wire)	
Classification	Perform CE LVD demand, without safty classify	

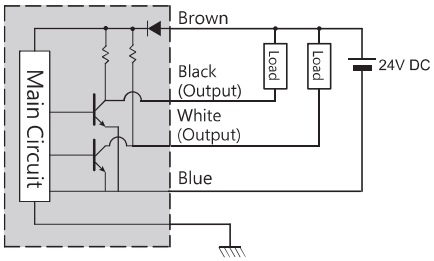
● การต่อใช้งาน

Standard models : light curtain has 2 individual transistor (NPN) output signals : one is SMNC during normal operation, NO when bl ocked ; another output is at opposite working status ; the maximum pass through current is around 200mA.

SMNA-xx(L)
SMNB-xx(L)

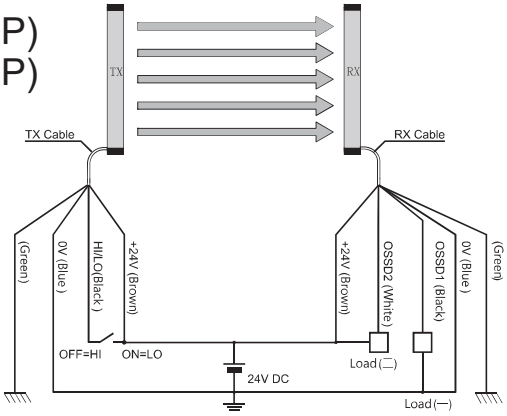


NPN Output Circuit Diagram
(Standard 2 NPN Output sets)

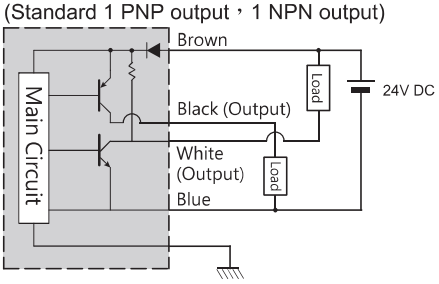


Select Model P : Optional light curtain has one individual transistor (PNP) output : +24V during light curtain normal operation ; without export(0V) when blocked ; another (NPN) output: NO during normal operation ; NC when blocked.

SMNA-xx(P)
SMNB-xx(P)



PNP Output Circuit Diagra m
(Standard 1 PNP output , 1 NPN output)

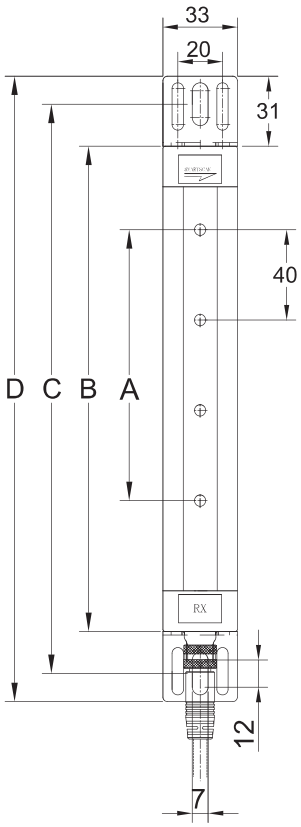


● การสั่งซื้อ

● ขนาดและมิติ

SMNA-XX (P)

Detection Capbility 45 mm. Beam Pitch 40 mm.		Standard Range : 0.5 M. to 3 M.			
Model	Beam	Detection Zone (A) mm.	Overall Lenght (B) mm.	Install Lenght (C) mm.	Assembly Lenght (D) mm.
SMNA - 4 (P)	4	120	215	246	276
SMNA - 6 (P)	6	200	295	326	356
SMNA - 8 (P)	8	280	375	406	436
SMNA - 10 (P)	10	360	455	486	516
SMNA - 12 (P)	12	440	535	566	596
SMNA - 14 (P)	14	520	615	646	676
SMNA - 16 (P)	16	600	695	726	756
SMNA - 20 (P)	20	760	855	886	916
SMNA - 24 (P)	25	920	1015	1046	1076
SMNA - 28 (P)	28	1080	1175	1206	1236
SMNA - 32 (P)	32	1240	1335	1366	1396
SMNA - 36 (P)	36	1400	1495	1526	1556
SMNA - 40 (P)	40	1560	1655	1686	1716
SMNA - 44 (P)	44	1720	1815	1846	1876



SMNA-XX (L)

Detection Capbility 45 mm. Beam Pitch 40 mm.		Long Range : 1 M. to 7 M.			
Model	Beam	Detection Zone (A) mm.	Overall Lenght (B) mm.	Install Lenght (C) mm.	Assembly Lenght (D) mm.
SMNA - 4 (L)	4	120	215	246	276
SMNA - 6 (L)	6	200	295	326	356
SMNA - 8 (L)	8	280	375	406	436
SMNA - 10 (L)	10	360	455	486	516
SMNA - 12 (L)	12	440	535	566	596
SMNA - 14 (L)	14	520	615	646	676
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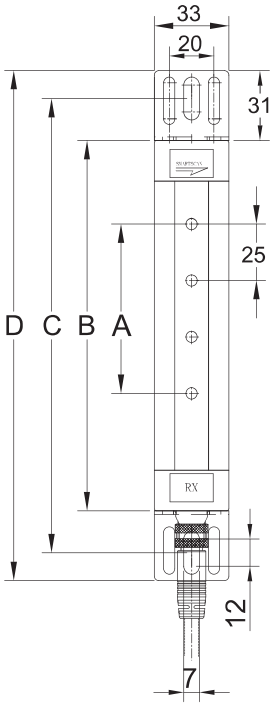
SMNA - 36 (L)	36	1400	1495	1526	1556
SMNA - 40 (L)	40	1560	1655	1686	1716
SMNA - 44 (L)	44	1720	1815	1846	1876

การสั่งซื้อ

SMNB-XX (P)

Detection Capbility 30 mm. Beam Pitch 25 mm.		Standard Range : 0.5 M. to 3 M.			
Model	Beam	Detection Zone (A) mm.	Overall Lenght (B) mm.	Install Lenght (C) mm.	Assembly Lenght (D) mm.
SMNB - 4 (P)	4	75	165	196	226
SMNB - 8 (P)	8	175	265	296	326
SMNB - 12 (P)	12	275	365	396	426
SMNB - 16 (P)	16	375	465	496	526
SMNB - 20 (P)	20	475	565	596	626
SMNB - 24 (P)	24	575	665	696	726
SMNB - 32 (P)	32	775	865	896	926
SMNB - 40 (P)	40	975	1065	1096	1126
SMNB - 48 (P)	48	1175	1265	1296	1326
SMNB - 56 (P)	56	1375	1465	1496	1536
SMNB - 64 (P)	64	1575	1665	1696	1726

ขนาดและมิติ



SMNB-XX (L)

Detection Capbility 30 mm. Beam Pitch 25 mm.		Standard Range : 1 M. to 7 M.			
Model	Beam	Detection Zone (A) mm.	Overall Lenght (B) mm.	Install Lenght (C) mm.	Assembly Lenght (D) mm.
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SMNB - 56 (L)	56	1375	1465	1496	1536
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