

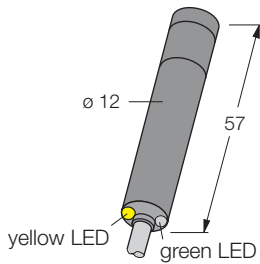
Laser Sensors

M12 Series Laser Emitter

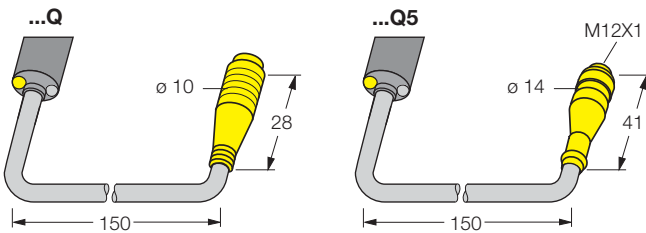


Dimensions [mm]

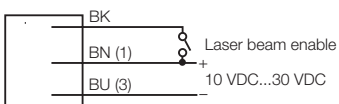
● Cable



● Connector



Wiring



Wave length

CLASS 1 LASER

Red	650 nm
Spot size (at lens)	2 mm (ellips)
Beam divergence	≤ 1 mrad
Laser protection class (EN 60825, IEC 60825)	1

CLASS 2 LASER

Red	650 nm
Spot size (at lens)	3,5 mm (ellips)
Beam divergence	≤ 1 mrad
Laser protection class (EN 60825, IEC 60825)	2

Supply

Supply voltage	10 VDC ... 30 VDC
Ripple V_{pp}	10 %
No load current	≤ 30 mA

Protection

reverse polarity
short-circuit (pulsed)

Material

Housing	aluminium
Lens	acrylic
Protection class (IEC 60529/EN 60529)	IP67
Temperature range	0 °C...+40 °C
Cable	2 m, PVC, 5 x 0,34 mm ²
Connector	picostyle (ø 10 mm)

Indicator LED's

Green	power-on
Yellow	laser diode enabled

Accessories

Bracket

SMB46X3	30 533 95	mounting bracket for precision alignment
SMB127	30 533 94	mounting, bracket assy.

Retroreflective Tape

BRT-THG-4X4-5	37 195 00
BRT-THG-8.5X11-2	34 133 00
BRT-THG-18X36	34 172 00

Connectors

PKW3-2	30 274 91	straight type
PKW3M-2	30 639 79	right-angled type

M12 Series Laser Emitter

	<i>Max. range</i>	<i>Light source</i>	<i>Output function</i>	<i>Connection</i>	<i>Type</i>	<i>Ident number</i>
Laser Emitters						
M12 series (class 1 laser)		red		cable	M126E1LD	30 529 59
		red		connector	M126E1LDQ	30 538 10
M12 series (class 2 laser)		red		connector	M126E1LDQ5	30 726 91
		red		cable	M126E2LD	30 512 79
		red		connector	M126E2LDQ	30 538 01
		red		connector	M126E2LDQ5	30 554 62
Suitable Receivers:						
MINI-BEAM™ series	3 m		pnP, npN	cable	SM31R	38 022 00
	3 m		pnP, npN	connector	SM31RQD	30 268 39
	30 m		pnP, npN	cable	SM31RL	38 006 00
	30 m		pnP, npN	connector	SM31RLQD	30 269 51
EZ-BEAM series ¹⁾	20 m		pnP	cable	S18SP6R	38 458 00
	20 m		pnP	connector	S18SP6RQ	38 459 00
	60 m		pnP	cable	S30SP6R	34 606 00
	60 m		pnP	connector	S30SP6RQ	34 607 00
	20 m		pnP	cable	T18SP6R	34 642 00
	20 m		pnP	connector	T18SP6RQ	34 643 00
	60 m		pnP	cable	T30SP6R	34 678 00
	60 m		pnP	connector	T30SP6RQ	34 679 00
	20 m		pnP	cable	Q25SP6R	34 534 00
	20 m		pnP	connector	Q25SP6RQ	34 535 00
	60 m		pnP	cable	Q40SP6R	34 570 00
	60 m		pnP	connector	Q40SP6RQ	34 571 00
Q45 series	60 m		pnP, npN	cable	Q45BB6R	30 365 62
	60 m		pnP, npN	connector	Q45BB6RQ5	30 386 60
	60 m		pnP, npN	cable	Q45VR3R	30 539 82
	60 m		pnP, npN	connector	Q45VR3RQ	30 543 16
Q10 series ¹⁾	1,8 m		pnP dark	cable	Q10RP6R	30 447 54
	1,8 m		pnP dark	connector	Q10RP6RQ	30 447 55
	1,8 m		pnP light	cable	Q10AP6R	30 447 52
	1,8 m		pnP light	connector	Q10AP6RQ	30 447 53
Q14 series ¹⁾	1,8 m		pnP dark	cable	Q14RP6R	30 453 89
	1,8 m		pnP dark	connector	Q14RP6RQ	30 457 35
	1,8 m		pnP light	cable	Q14AP6R	30 453 87
	1,8 m		pnP light	connector	Q14AP6RQ	30 457 33
Q23 series ¹⁾	8 m		pnP	cable	Q23SP6R	30 464 34
	8 m		pnP	connector	Q23SP6RQ	30 464 45
QH23 series ¹⁾	8 m		pnP	cable	QH23SP6R	30 488 06
	8 m		pnP	connector	QH23SP6RQ	30 488 17

¹⁾ npN models also available

Subject to changes without notice • Edition 08.04 • P/N ED039



These sensors do not include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A sensor failure or malfunction can result in either an energised or de-energised output condition. These products should not be used as sensing devices for personnel safety.