

Laser sensors



**S18 series
laser emitter**

Wave length

Red	670 nm
Spot size (at lens)	2,5 mm (ellips)
Beam divergence	≈ 0,5 mrad
Laser protection class (EN 60825, IEC 60825)	I

Supply

Supply voltage	10...30 V dc
Ripple V_{pp}	10 %
No load current	≤ 35 mA

Protection

reverse polarity
short-circuit (pulsed)

Material

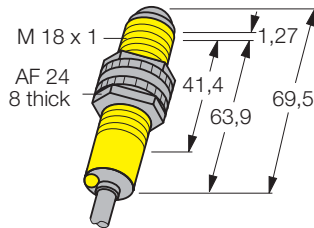
Housing	PBT
Lens	acrylic
Protection class (IEC 60529/EN 60529)	IP67
Temperature range	-10...+50 °C
Cable	2 m, PVC, 5 x 0,34 mm ²
Connector	eurocon (M12 x 1)

Indicator LED's

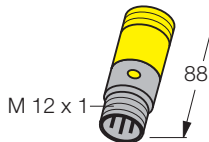
Green	power-on
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Dimensions [mm]

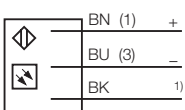
● Cable



● Connector



Wiring



¹⁾ beam inhibit: connect to +

Accessories

Brackets

SMB18A	34 702 00	mounting bracket
SMB18SF	30 525 19	swivel mount bracket
SMB18C	34 700 00	split clamp bracket
SMB46A	30 525 18	protective bracket

Connectors

WAK4-2/P00	80 070 46	straight type
WWAK4-2/P00	80 071 48	right-angled type

S18 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 emitter						
S18 series		red red		cable connector	S186ELD S186ELDQ	30 498 00 30 363 93
— Receiver						
MINI-BEAM™ series	3 m 3 m 30 m 30 m		pnP, npN pnP, npN pnP, npN pnP, npN	cable connector cable connector	SM31R SM31RQD SM31RL SM31RLQD	38 022 00 30 268 39 38 006 00 30 269 51
EZ-BEAM series ¹⁾	20 m 20 m 60 m 60 m 20 m 20 m 60 m 60 m 20 m 20 m 60 m 60 m		pnP pnP pnP pnP pnP pnP pnP pnP pnP pnP pnP pnP	cable connector cable connector cable connector cable connector cable connector cable connector	S18SP6R S18SP6RQ S30SP6R S30SP6RQ T18SP6R T18SP6RQ T30SP6R T30SP6RQ Q25SP6R Q25SP6RQ Q40SP6R Q40SP6RQ	38 458 00 38 459 00 34 606 00 34 607 00 34 642 00 34 643 00 34 678 00 34 679 00 34 534 00 34 535 00 34 570 00 34 571 00
Q45 series	60 m 60 m 60 m 60 m		pnP, npN pnP, npN pnP, npN pnP, npN	cable connector cable connector	Q45BB6R Q45BB6RQ5 Q45VR3R Q45VR3RQ	30 365 62 30 386 60 30 539 82 30 543 16
Q10 series ¹⁾	1,8 m 1,8 m 1,8 m 1,8 m		pnP dark pnP dark pnP light pnP light	cable connector cable connector	Q10RP6R Q10RP6RQ Q10AP6R Q10AP6RQ	30 447 54 30 447 55 30 447 52 30 447 53
Q14 series ¹⁾	1,8 m 1,8 m 1,8 m 1,8 m		pnP dark pnP dark pnP light pnP light	cable connector cable connector	Q14RP6R Q14RP6RQ Q14AP6R Q14AP6RQ	30 453 89 30 457 35 30 453 87 30 457 33
Q23 series ¹⁾	8 m 8 m		pnP pnP	cable connector	Q23SP6R Q23SP6RQ	30 464 34 30 464 45
QH23 series ¹⁾	8 m 8 m		pnP pnP	cable connector	QH23SP6R QH23SP6RQ	30 488 06 30 488 17

¹⁾ npn models also available

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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.