



Q14 series dc operation

Wave length

IR (infrared) 880 nm

Supply

Supply voltage 10...30 V dc
Ripple V_{pp} $\leq 10\%$
No load current ≤ 15 mA
Delay upon power up 100 ms

Protection

reverse polarity
short-circuit

Output

Switching function light or dark operate versions
Continuous load current ≤ 150 mA
Overload trip point ≥ 220 mA typical at 20 °C
Switching frequency 83 Hz

Material

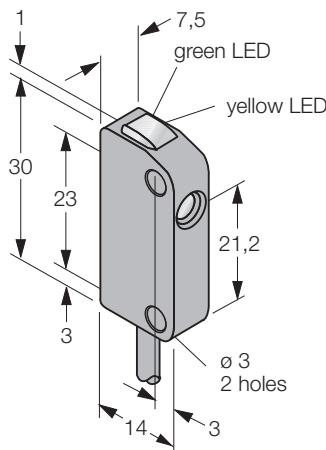
Housing ABS
Lens glass
Protection class IP54
(IEC 60529/EN 60529)
Temperature range -20...+55 °C
Cable 2 m, PVC, 3 x 0,11 mm²
2 m, PVC, 2 x 0,11 mm² (emitter)
Connector *picocon* ($\varnothing 8$ mm)

Indicator LED's

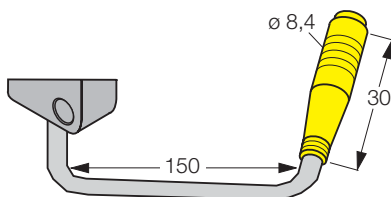
Yellow light sensed
Green supply voltage
Yellow flashing low gain
Green flashing output overload

Dimensions [mm]

● Cable

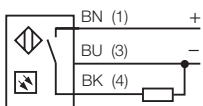


● Connector

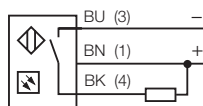


Wiring

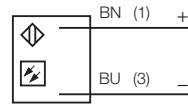
pnp



nnp



emitter



Accessories

Bracket

Side mounting bracket included

Connectors

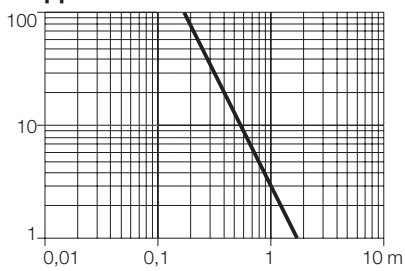
KP3-2/S90	80 072 78	straight type, PUR
WKP3-2/S90	80 073 14	right-angled type, PUR
KP3-2/P00	80 072 77	straight type, PVC
WKP3-2/P00	80 073 13	right-angled type, PVC

Q14 series

dc operation

Excess gain curve:
Excess gain in relation to the distance

— **Opposed**



	<i>Max. range</i>	<i>Light source</i>	<i>Output function</i>	<i>Connection</i>	<i>Type</i>	<i>Ident number</i>
	1,8 m	IR	(emitter)	cable	Q146E	30 451 51
	1,8 m	IR	pnP light	cable	Q14AP6R	30 453 87
	1,8 m	IR	pnP dark	cable	Q14RP6R	30 453 89
	1,8 m	IR	npN light	cable	Q14AN6R	30 451 52
	1,8 m	IR	npN dark	cable	Q14RN6R	30 453 88
	1,8 m	IR	(emitter)	connector	Q146EQ	30 457 31
	1,8 m	IR	pnP light	connector	Q14AP6RQ	30 457 33
	1,8 m	IR	pnP dark	connector	Q14RP6RQ	30 457 35
	1,8 m	IR	npN light	connector	Q14AN6RQ	30 457 32
	1,8 m	IR	npN dark	connector	Q14RN6RQ	30 457 34

Subject to changes without notice • Edition 02.02 • P/N ED014 – excerpt from EC001/0102



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.