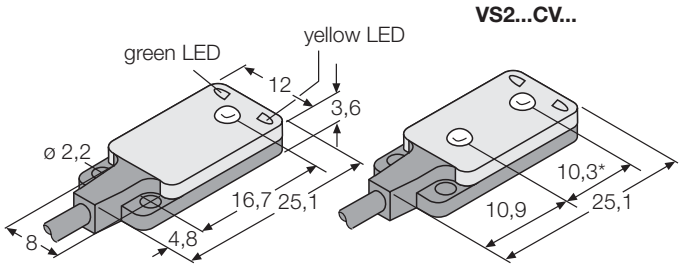
VS2 series
DC operation

Wave length		
Red		660 nm
Infrared (IR)		940 nm
Supply		
Supply voltage		10…30 V dc
Ripple V_{pp}		≤ 10 %
No load current	emitter	≤ 25 mA (visible red) ≤ 30 mA (infrared)
	receiver	≤ 25 mA
Delay upon power up		100 ms VS2...CV: 150 ms
Protection		reverse polarity overload short-circuit transient voltages
Output		
Switching function		light or dark operate versions
Continuous load current		50 mA
Switching frequency		≤ 500 Hz
Material		
Housing		ABS
Lens		MABS VS2...CV: acrylic
Protection class (IEC 60529/EN 60529)		IP67
Temperature range		-20…+55 °C
Cable		2 m, PVC, 3 x 0,34 mm²
Connector		*picocon* (M8 x 1)
Indicator LED's		
Yellow		light sensed
Green		supply voltage
Yellow flashing		low gain
Green flashing		overload

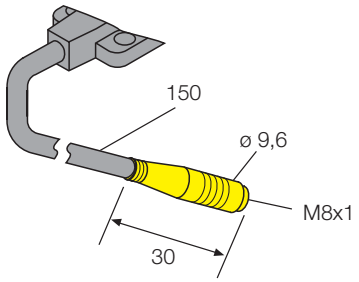
Dimensions [mm]

● **Cable**



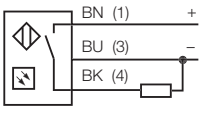
* VS2CV15: 9,7 mm

● **Connector**

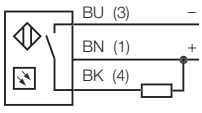


Wiring

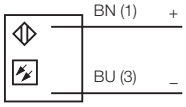
pnp



npn



emitter



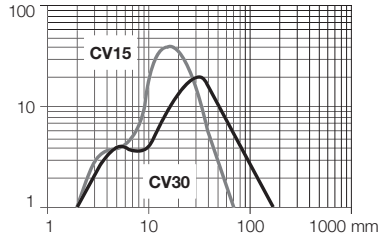
Accessories

Apertures		
APVS2-0204	30 589 31	round – 0,5 and 1 mm (stainless steel)
APVS2-0608	30 589 32	round – 1,5 and 2 mm (stainless steel)
APVS2-02R	30 589 33	rectangular – 0,5 mm (stainless steel)
APVS2-04R	30 589 34	rectangular – 1 mm (stainless steel)
Bracket		
SMBVS2RA	30 586 03	right-angled bracket
Connector		
SKP3-2/S90	80 073 32	straight type, PUR
SKP3-2/P00	80 073 31	straight type, PVC

VS2 series
DC operation

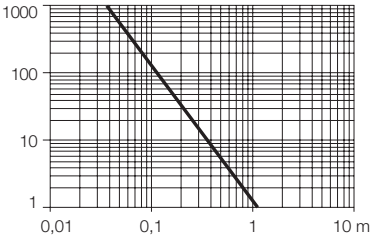
Excess gain curve:
Excess gain in relation to the distance

Convergent



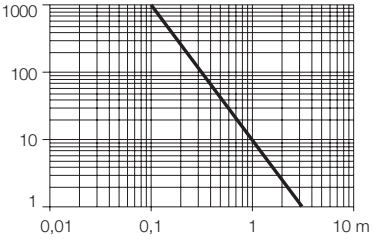
Max. range [mm]	Light source	Output function	Connection	Type	Ident number
15 ± 5	red	pnp light	cable	**VS2AP5CV15**	30 617 45
15 ± 5	red	pnp light	connector	**VS2AP5CV15Q**	30 630 75
15 ± 5	red	pnp dark	cable	**VS2RP5CV15**	30 617 47
15 ± 5	red	pnp dark	connector	**VS2RP5CV15Q**	30 630 77
15 ± 5	red	npn light	cable	**VS2AN5CV15**	30 617 44
15 ± 5	red	npn light	connector	**VS2AN5CV15Q**	30 630 74
15 ± 5	red	npn dark	cable	**VS2RN5CV15**	30 617 46
15 ± 5	red	npn dark	connector	**VS2RN5CV15Q**	30 630 76
30 ± 10	red	pnp light	cable	**VS2AP5CV30**	30 617 49
30 ± 10	red	pnp light	connector	**VS2AP5CV30Q**	30 630 79
30 ± 10	red	pnp dark	cable	**VS2RP5CV30**	30 617 51
30 ± 10	red	pnp dark	connector	**VS2RP5CV30Q**	30 630 81
30 ± 10	red	npn light	cable	**VS2AN5CV30**	30 617 48
30 ± 10	red	npn light	connector	**VS2AN5CV30Q**	30 630 78
30 ± 10	red	npn dark	cable	**VS2RN5CV30**	30 617 50
30 ± 10	red	npn dark	connector	**VS2RN5CV30Q**	30 630 80

Opposed Visible Red



Max. range [mm]	Light source	Output function	Connection	Type	Ident number
1200	red	(emitter)	cable	**VS25EV**	30 554 01
1200	red	(emitter)	connector	**VS25EVQ**	30 591 61
1200	red	pnp light	cable	**VS2KAP5V** (E/R)	30 582 22
1200	red	pnp light	connector	**VS2KAP5VQ** (E/R)	30 631 00
1200	red	pnp dark	cable	**VS2KRP5V** (E/R)	30 582 23
1200	red	pnp dark	connector	**VS2KRP5VQ** (E/R)	30 608 94
1200	red	npn light	cable	**VS2KAN5V** (E/R)	30 582 20
1200	red	npn light	connector	**VS2KAN5VQ** (E/R)	30 630 99
1200	red	npn dark	cable	**VS2KRN5V** (E/R)	30 582 21
1200	red	npn dark	connector	**VS2KRN5VQ** (E/R)	30 631 01

Opposed Infrared



Max. range [mm]	Light source	Output function	Connection	Type	Ident number
3000	IR	emitter	cable	**VS25E**	30 572 50
3000	IR	emitter	connector	**VS25EQ**	30 694 49
3000	IR	npn light	cable	**VS2AN5R**	30 554 02
3000	IR	npn light	connector	**VS2AN5RQ**	30 630 97
3000	IR	npn light	cable	**VS2KAN5** (E/R)	30 706 68
3000	IR	npn light	connector	**VS2KAN5Q** (E/R)	30 706 69
3000	IR	pnp light	cable	**VS2KAP5** (E/R)	30 706 62
3000	IR	pnp light	connector	**VS2KAP5Q** (E/R)	30 706 73
3000	IR	npn dark	cable	**VS2RN5R**	30 554 03
3000	IR	npn dark	connector	**VS2RN5RQ**	30 630 98
3000	IR	npn dark	cable	**VS2KRN5** (E/R)	30 706 70
3000	IR	npn dark	connector	**VS2KRN5Q** (E/R)	30 706 71
3000	IR	pnp light	cable	**VS2AP5R**	30 554 04
3000	IR	pnp light	connector	**VS2AP5RQ**	30 615 96
3000	IR	pnp dark	cable	**VS2RP5R**	30 554 05
3000	IR	pnp dark	connector	**VS2RP5RQ**	30 591 75
3000	IR	pnp dark	cable	**VS2KRP5** (E/R)	30 706 74
3000	IR	pnp dark	connector	**VS2KRP5Q** (E/R)	30 706 75

Note: Opposed mode sensors are available in pairs or individually.

Subject to changes without notice • Edition rev 06.02 • P/N ED057

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.