

SPECIFICATIONS

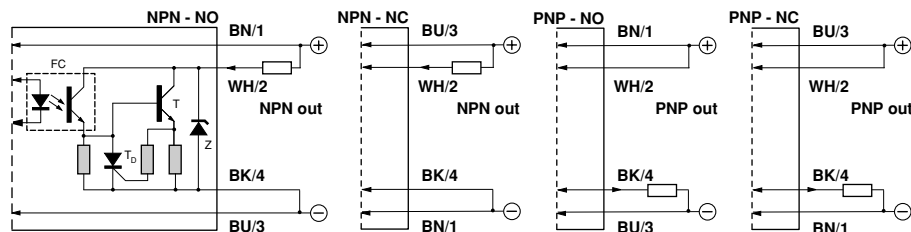
Model	BS2/00-0*	BS4/00-0*	BS6/00-0*	BS8/00-0*	BSC/00-0*	BSP/00-0*	BV2/00-0*	BV4/00-0*	BV6/00-0*	BV8/00-0*	BVC/00-0*	BVP/00-0*
Type	diffuse reflection				retro-reflective		diffuse reflection				retro-reflective	
	standard				standard	polarized	standard				standard	polarized
Nominal sensing distance (Sn)	100mm ⁽¹⁾	200mm ⁽¹⁾	400mm ⁽²⁾	1600mm ⁽²⁾	8m ⁽³⁾	2,5m ⁽³⁾	100mm ⁽¹⁾	200mm ⁽¹⁾	400mm ⁽²⁾	1600mm ⁽²⁾	8m ⁽³⁾	2,5m ⁽³⁾
Emission	infrared (880nm)					red	infrared (880nm)					red
Tolerance	+15/ -5% Sn											
Differential travel	5%				10%		5%				10%	
Repeat accuracy	5%											
Operating voltage	10 - 30 Vdc						20 - 253 Vac / 50-60Hz					
Ripple	≤10 %						-					
No-load supply current / power supply	25mA						1,5W					
Load current	100 mA						5mA / 300mA _{RMS}					
Inrush current	-						6A (Ton=10ms)					
Leakage current	≤ 10μA						1,5mA _{RMS} max. (supply V=253Vac)					
Voltage drop	1,2V max.						2,5V max.					
Output type	DECOUT® (NPN, PNP, NO, NC selectable)						TRIAC (NO/NC selectable)					
Switching frequency	80Hz						25Hz					
Time delay before availability							200 ms					
Supply electrical protections							transient					
Output electrical protections	short circuit (with hold)						-					
Sensitivity adjustment	1 turn trimmer											
Temperature range	-25°....+70°C (without freeze)				-25°.....+60°C		-25°....+70°C (without freeze)				-25°.....+60°C	
Temperature drift	≤10% Sr											
Interference to external light	3000 lux (incandescent lamp), 10000 lux (sunlight)											
Protection degree (DIN 40 050)	IEC IP65											
LED indicators	red (output energized)											
Housing material	ABS polyetilene (cable exit)											
Lenses material	plexiglas											
Weight (approx.)	130g (50g mounting bracket ST01)											

(1) with 100x100mm white matt paper; (2) with 200x200mm white matt paper; (3) with standard reflector Ø80mm (RL110 supplied separately).

WIRING DIAGRAMS

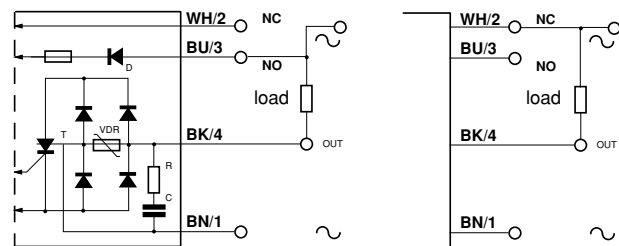
DECOUT® output (1)

BS*/00-0*



TRIAC output (2)

BV*/00-0*



NOTE:

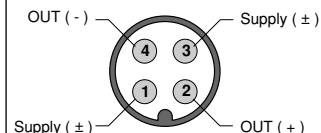
(1) In case of combined load, resistive and capacitive, the maximum admissible capacity $C = 0,2 \mu F$, for maximum output voltage and current.

(2) Through proper wiring for the connection cable BV models in AC permit one to select the output state.

NO output state: BLUE→power supply
WHITE→ disconnected (*isolate on a terminal*)
NC output state: WHITE→power supply
BLUE→disconnected (*isolate on a terminal*)

CONNECTORS

M12



CHARACTERISTIC CURVES

