

Types of Output DC 1

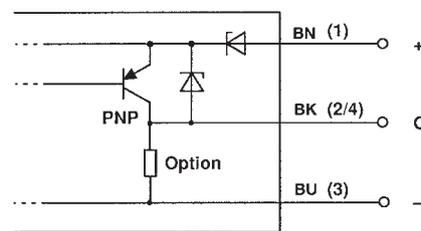
Cable colour abbreviations

BN = Brown

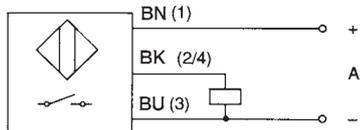
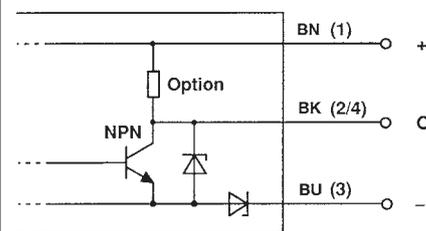
BU = Blue

BK = Black (switch output)

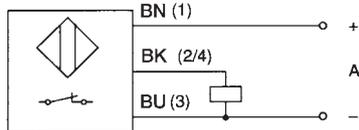
PNP output
(circuit schematic)



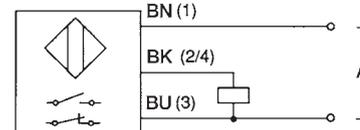
NPN output
(circuit schematic)



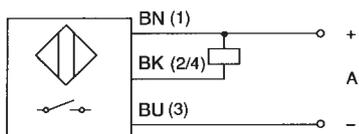
1) PNP normally-open contact
When actuated, a PNP transistor applies the output to positive.



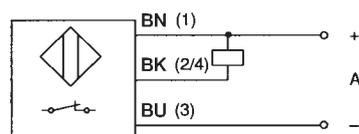
2) PNP normally-closed contact
When actuated, a PNP transistor disconnects the output from positive.



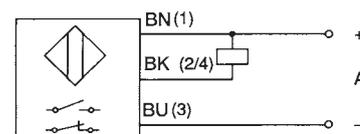
3) PNP programmable
The PNP NO contact 1) or PNP NC contact 2) function can be selected by means of a built-in changeover switch.



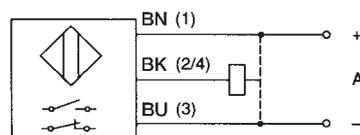
4) NPN normally-open contact
When actuated, a NPN transistor applies the output to negative.



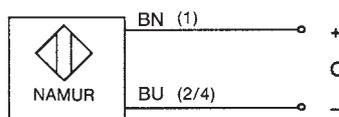
5) NPN normally-closed contact
When actuated, an NPN transistor disconnects the output from negative.



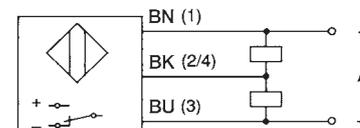
6) NPN programmable
The NPN NO contact 4) or NPN NC contact 5) function can be selected by means of a built-in changeover switch.



7) PNP/NPN programmable
Two built-in changeover switches are used to select between PNP or NPN switching and between NC or NO function.



8) NAMUR
Current change to DIN EN 60947-5-6



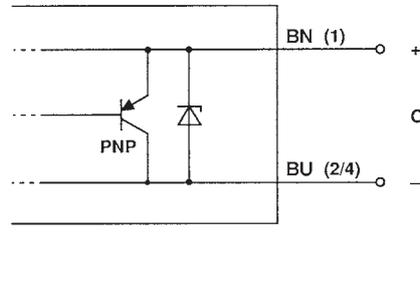
9) Push-pull programmable
When actuated, the output changes from negative to positive or, selectable with a built-in changeover switch, from positive to negative.

Types of Output DC 2

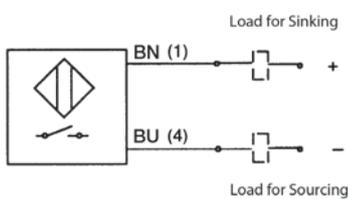
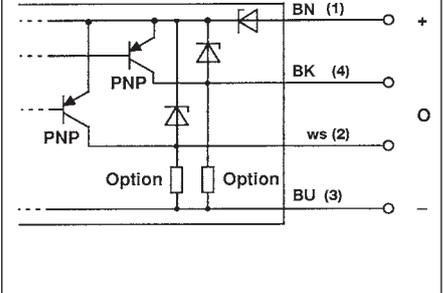
Cable colour abbreviations

BN = Brown
BU = Blue
BK = Black (switch output)
WH = White (switch output)

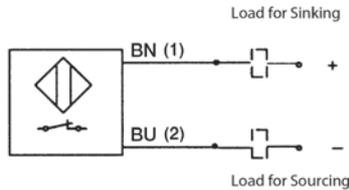
DC 2-wire
(circuit schematic)



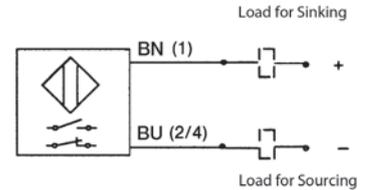
DC 4-wire
(circuit schematic)



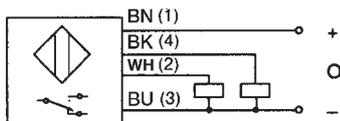
1) NO contact DC 2-wire
When actuated, the contacts are bridged.



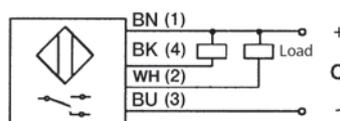
2) NC contact DC 2-wire
When actuated, the contacts are disconnected.



3) NC/NO contact programmable
DC 2-wire
The NO contact 1) or NC contact 2) function can be selected by means of a built-in changeover switch.



4) Changeover output DC (antivalent)
PNP 4-wire
When actuated, the positive operating voltage is alternatively applied to one of the two outputs.



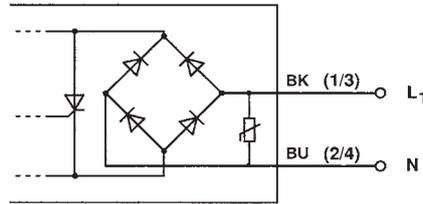
5) Changeover output DC (antivalent)
NPN 4-wire
When actuated, the negative operating voltage is alternatively applied to one of the two outputs.

Types of Output AC 1

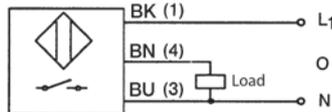
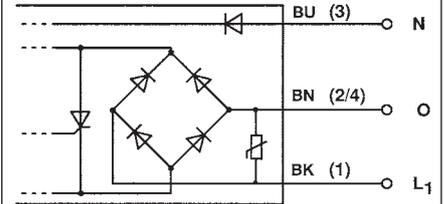
Cable colour abbreviations

BN = Brown
 BU = Blue
 BK = Black

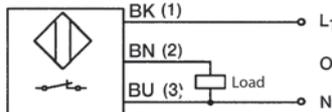
AC 2-wire
 (circuit schematic)



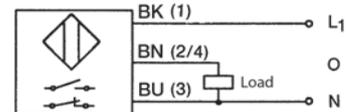
AC 3-wire
 (circuit schematic)



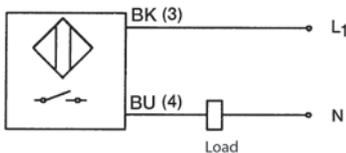
1) NO contact AC 3-wire
 When actuated, a thyristor connected across a rectifier bridge applies the operating voltage to the output.



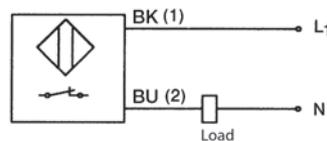
2) NC contact AC 3-wire
 When actuated, a thyristor connected across a rectifier bridge disconnects the operating voltage from the output.



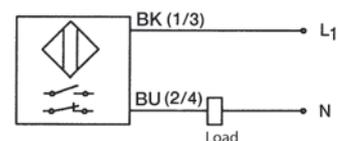
3) NC/NO contact programmable AC 3-wire
 The AC NO contact 1) or AC NC contact 2) function can be selected by means of a built-in changeover switch.



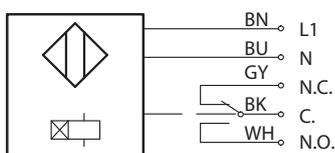
4) NO contact AC 2-wire
 When actuated, a thyristor connected across a rectifier bridge applies the load to the operating voltage.



5) NC contact AC 2-wire
 When actuated, a thyristor connected across a rectifier bridge disconnects the load from the operating voltage.

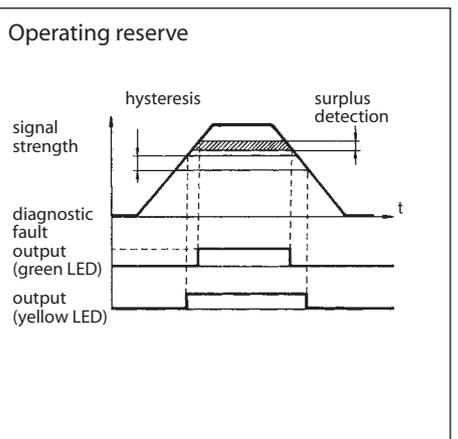
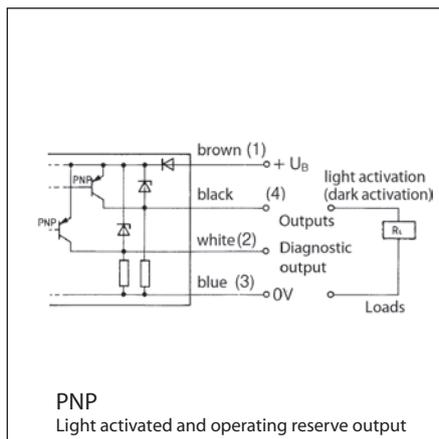
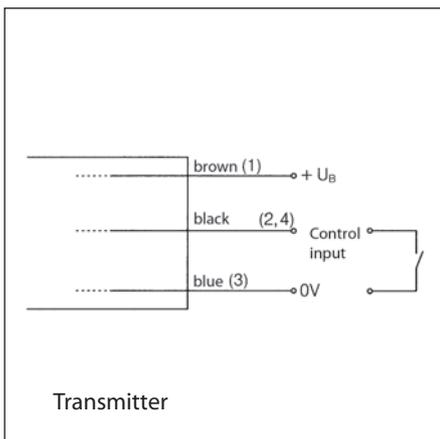
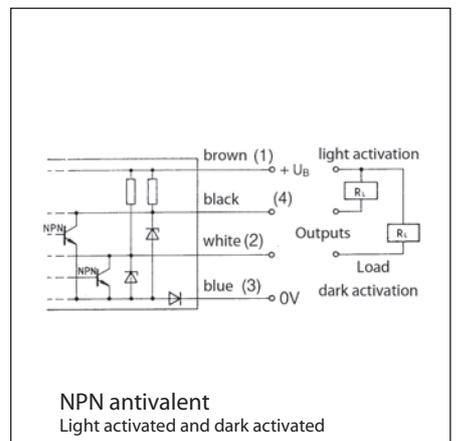
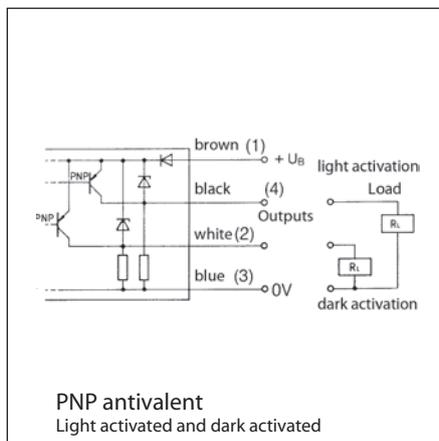
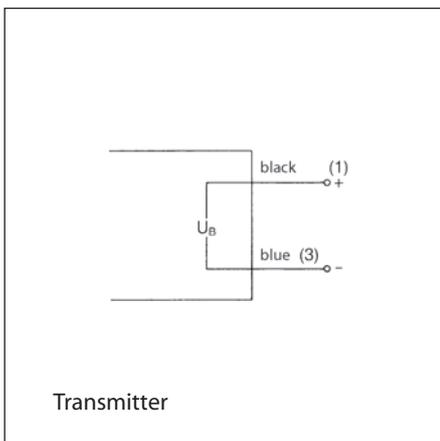
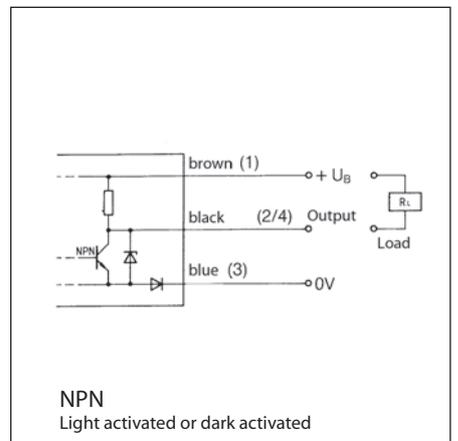
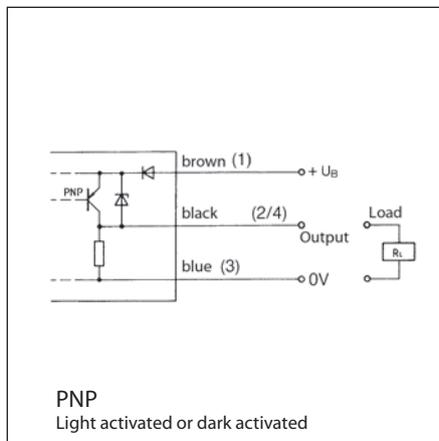
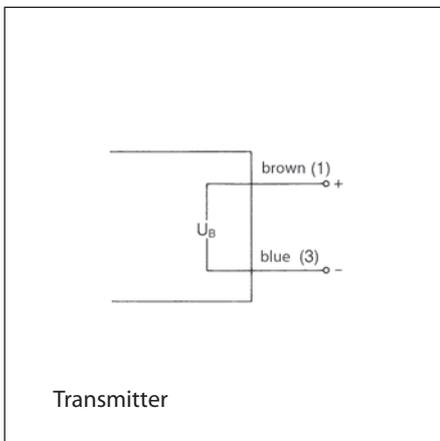


6) NC/NO contact programmable AC 2-wire
 The AC NO contact 4) or AC NC contact 5) function can be selected by means of a built-in changeover switch.

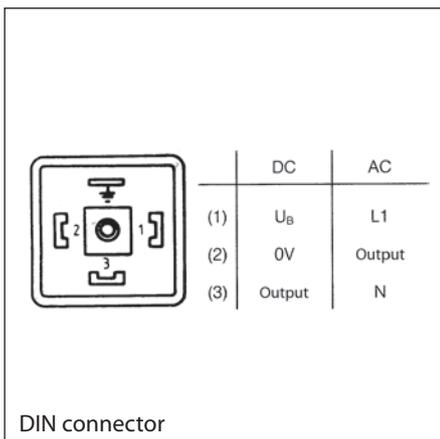
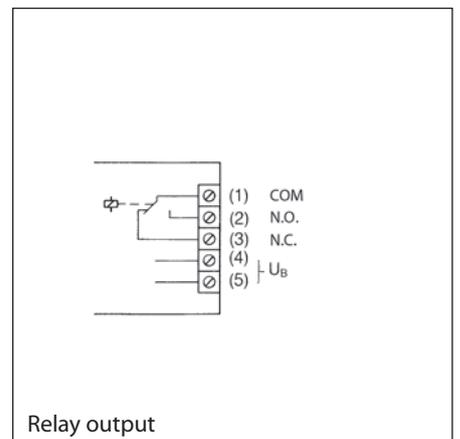
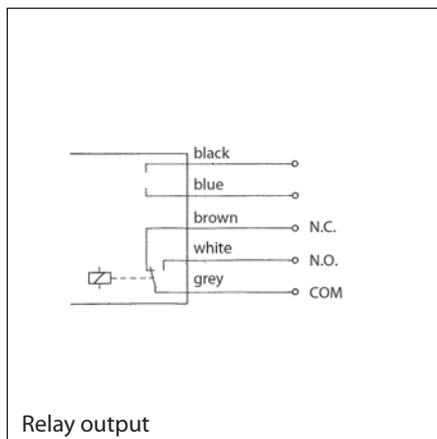
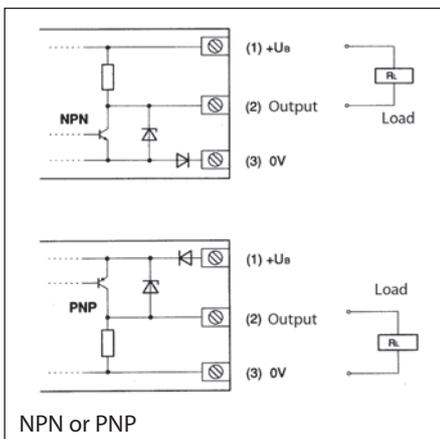
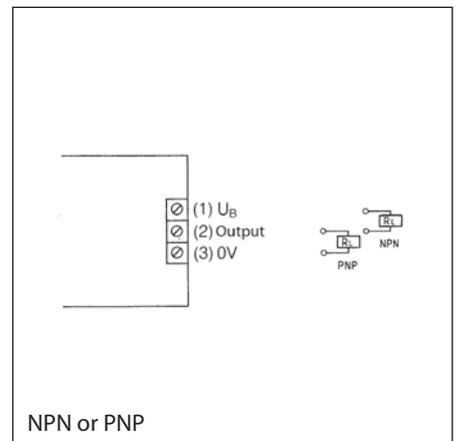
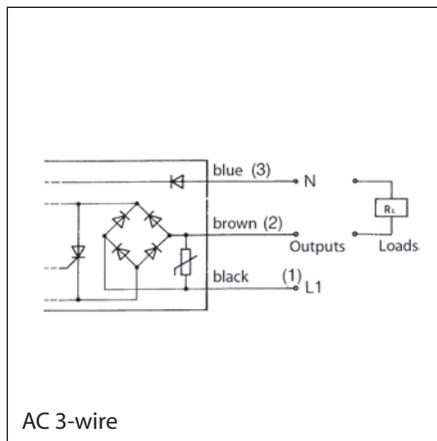
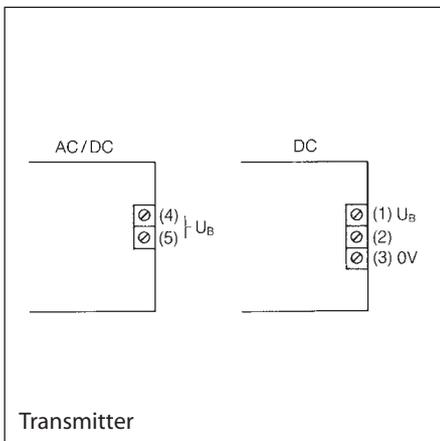


7) AC relay output
 With adjustable pickup delay

Optoelectronic Sensors 1



Optoelectronic Sensors 2



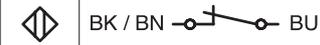
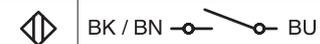
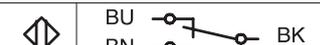
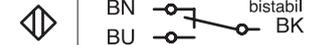
Type of Contact

Electric Loading Capacity of Reed Contacts AC/DC

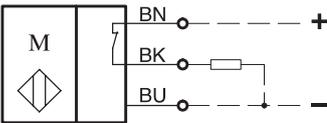
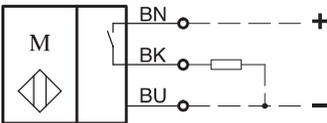
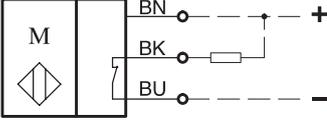
Contact type ID	Power	Voltage	Current
R	3 VA	28 V	0.25 A
X	5 VA	100 V	0.25 A
B	10 VA	250 V	0.5 A
Y	10 VA	100 V	0.5 A
A	20 VA	250 V	0.5 A
K	30 VA	250 V	0.5 A
H	60 VA	250 V	1.0 A
L	60 VA	250 V	1.0 A
M	80 VA	250 V	1.0 A
F	100 VA	250 V	3.0 A
G	250 VA*	250 V	5.0 A*
P	250 VA*	250 V	5.0 A*

* Maximum make current for the duration of 2 ms
2.5 A; 100 W/VA in continuous operation

Wiring Diagrams Electromechanical Magnetic Switches

contact		
NO contact		
Changeover contact		
Bistable ON-OFF		
Bistable Changeover contact		

Wiring Diagrams Electronic Magnetic Switches

NC contact, PNP	
NO contact, PNP/PNP, bistable	
NC contact, NPN	
NO contact, NPN	