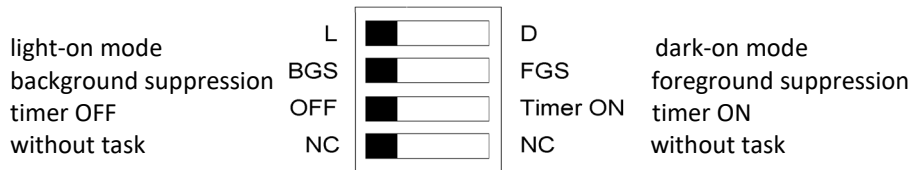


OT5905xx





DIP-switch coding (DC-device without timer)





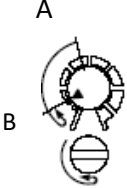
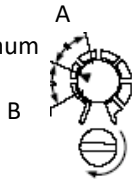
DIP-switch coding (DC-device with timer)



adjustment in background suppression mode (BGS)

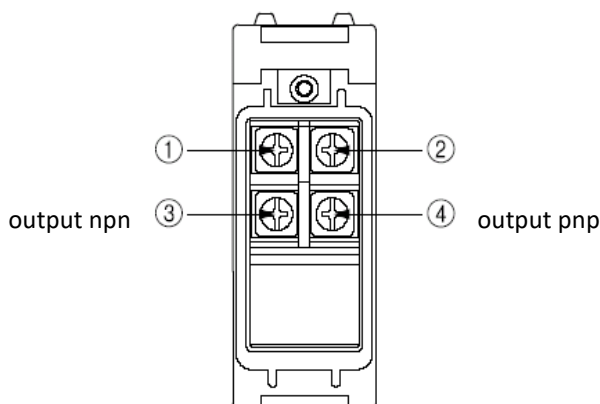
step	description	distance adjuster
1	turn the potentiometer anti clockwise to the min. position	
2	Place an object at the required distance from the sensor, gradually turn the distance adjuster clockwise to determine point A where the sensor changes to the detecting state.	
3	Remove the object. Continue turning the distance adjuster clockwise until the sensor enters the detecting state again. Then turn the distance adjuster back a little until the sensor returns to the non-detecting state, called point B. (If the sensor does not go into the detecting state even if the adjuster is turned fully clockwise, point B is regarded as the maximum position on the scale)	
4	The optimum position for stable detection is the centre point between A and B.	

adjustment in foreground suppression mode (FGS)

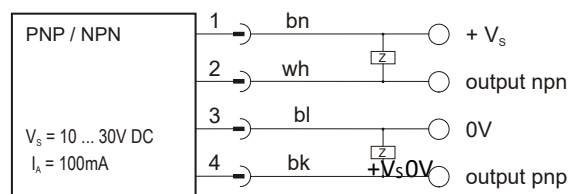
step	description	distance adjuster
1	Turn the distance adjuster fully clockwise to the maximum sensing range position.	
2	In the state where the sensor detects the background, gradually turn the distance adjuster anti clockwise to determine point A where the sensor changes to the non-detecting state.	
3	Place an object at the required distance from the sensor, turn the adjuster anti clockwise further until the sensor goes into the non-detecting state again. Once entered, turn the adjuster backwards a little until the sensor returns to the detecting state, called point B. (If the sensor does not go into the detecting state even if the adjuster is turned fully clockwise, point B is regarded as the maximum position on the scale)	
4	The optimum position for stable detection is the centre point between A and B.	

Connection

srew terminal:

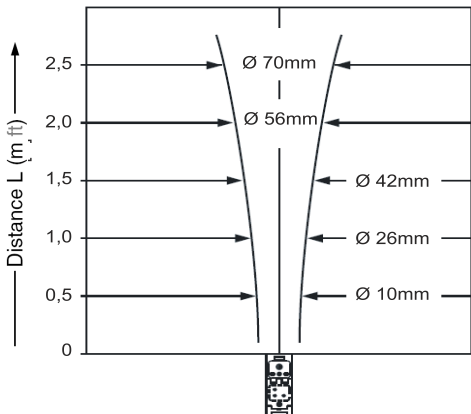


M12-connector:

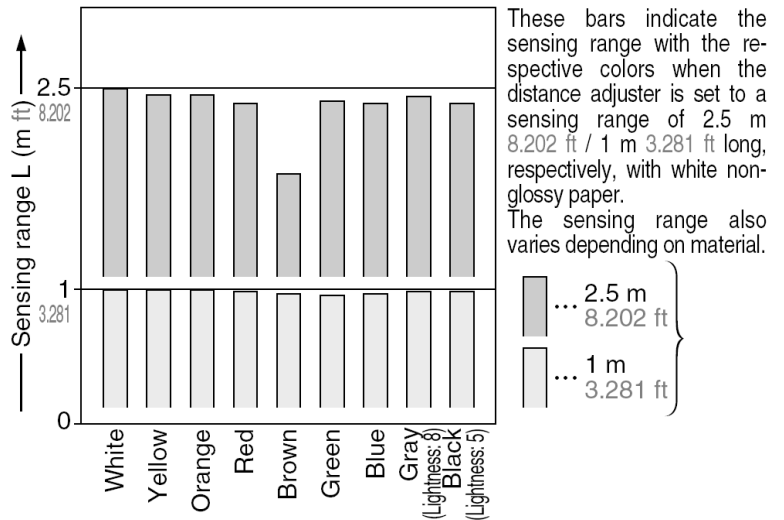


bn=brown, wh=white, bk=schwarz, bl=blue

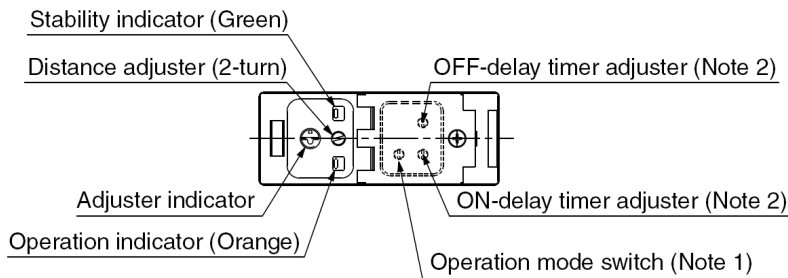
Emitted beam



Correlation between material and sensing range



Operating elements



* for devices with timer only (see list of articles), range 0.1 ... 5 sec.

List of articles

article-no.	range	remarks	supply voltage	output	current	connection
OT590500	0.1...1m, BGS/FGS	250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	screw terminal
OT590520	0.1...1m, BGS/FGS	250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	M12-conn.4pole
OT590580	0.1...1m, BGS/FGS	timer, 250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	screw terminal
OT590581	0.1...1m, BGS/FGS	timer, 250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	M12-conn.4pole
OT590505	0.1...2.5m, BGS/FGS	250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	screw terminal
OT590525	0.1...2.5m, BGS/FGS	250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	M12-conn.4pole
OT590585	0.1...2.5m, BGS/FGS	timer, 250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	screw terminal
OT590586	0.1...2.5m, BGS/FGS	timer, 250Hz	12 ... 24V DC	pnp/npn, no/nc	100mA	M12-conn.4pole

SAFETY WARNINGS:

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these devices in applications where the safety of a person depends on their functionality.