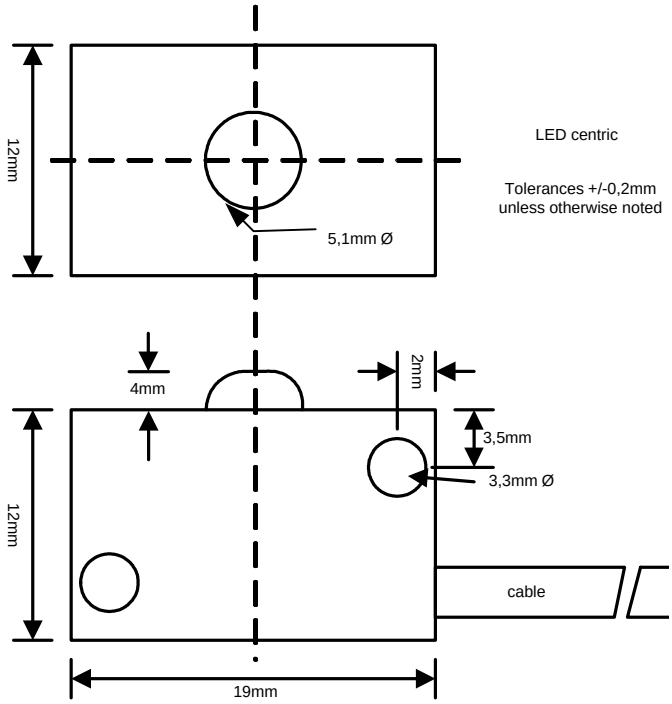
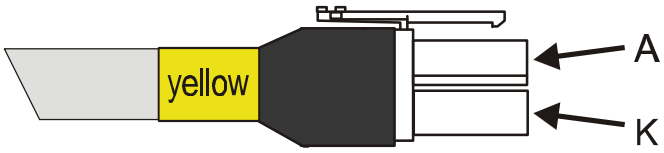
SGHAR12 (Transmitter)



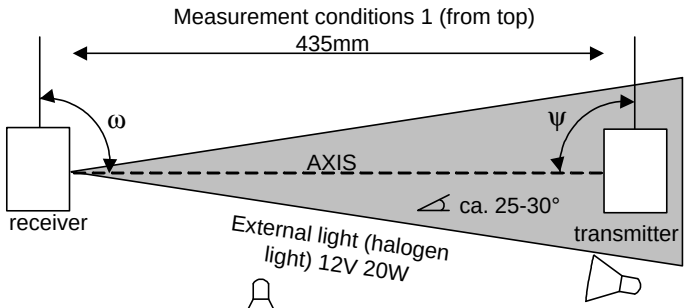
Technical Data:

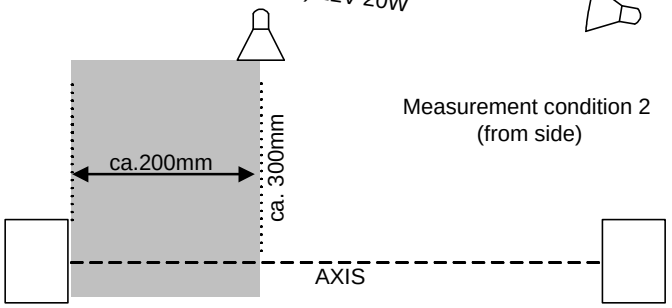
reverse voltage	U_F	max. 5V
forward current	I_F	max. 100mA
max. power	P_V	max. 210mW
temperature range	T_{amb}	-20°C...+80°C
wave length (peak) (max. of wave length)	λ_p	940nm
Halve angel	φ	± 25°
cable length	l_k	4000 ± 50mm



Connector:

connector type	Molex 39-01-2025
colour coding	yellow





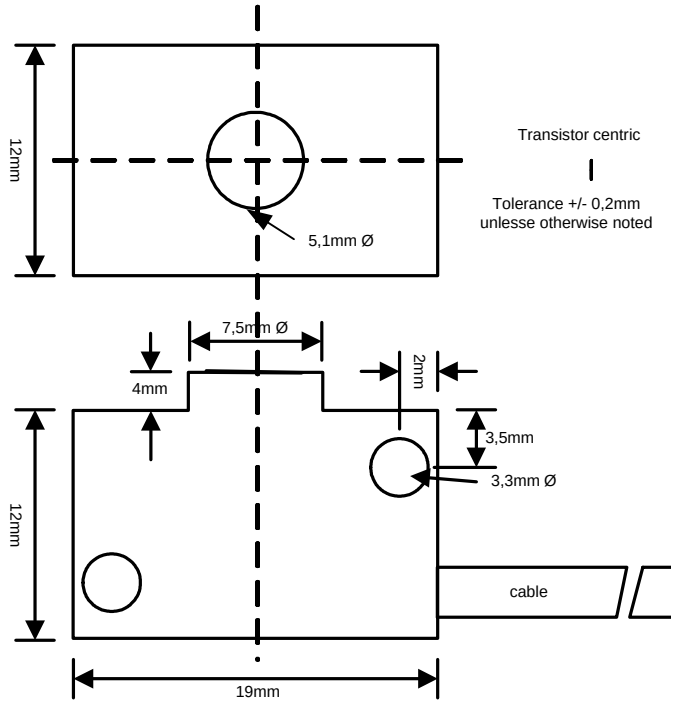
Influence of external light:

The left figures show – under typical usage conditions – the limits under which the devices (consisting of SGHAR12 transmitter, SGHAR13 receiver, working at a SGHAR8 controller) will still work correctly (→ ext. light outside grey marked area).

alignment error:

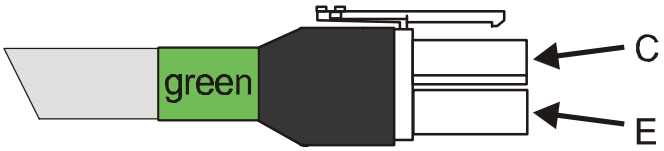
The function is only guaranteed, if the axis alignment error of receiver and transmitter will be less than 10° ($\psi + \omega < 10°$!).

SGHAR13 (Receiver)



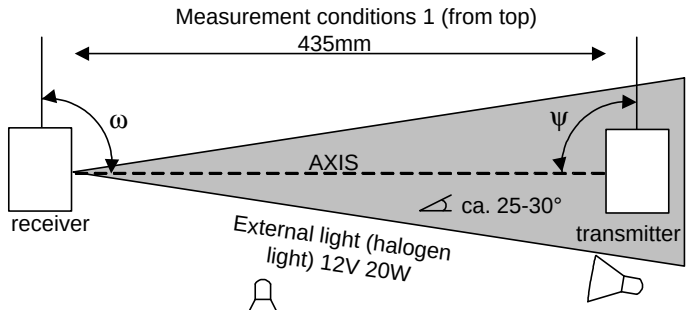
Technical Data:

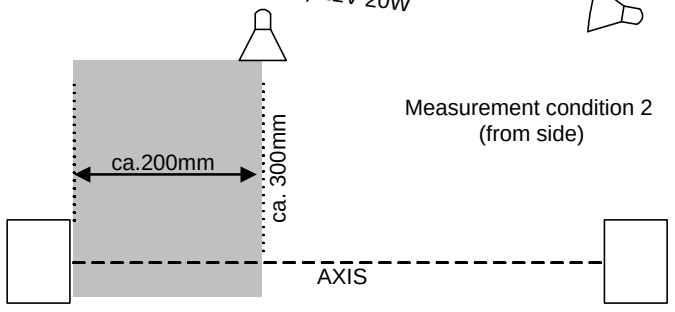
voltage CE	U_{CE}	max. 35V
voltage EC	U_{EC}	max. 7V
collector current	I_C	max. 50mA
max. power	P_{tot}	max. 200mW
temperature range	T_{amb}	-20°...+80°C
wave length (peak) (max. sensivity)	$\lambda_{s\ max}$	870nm
halve angel	φ	± 25°
cable length	l_k	4000 ± 50mm



Connector:

connector type	Molex 39-01-2025
colour coding	green





Influence of external light:

The left figures show – under typical usage conditions – the limits under which the devices (consisting of SGHAR12 transmitter, SGHAR13 receiver, working at a SGHAR8 controller) will still work correctly (→ ext. light outside grey marked area).

alignment error:

The function is only guaranteed, if the axis alignment error of receiver and transmitter will be less than 10° ($\psi + \omega < 10°$!).