

Technical data, Approximate dimensions

Photoelectric sensors, Retroflective

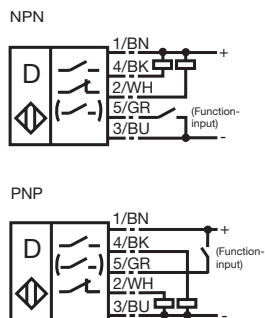


Photoelectric sensors: Retroreflective sensors for the detection of transparent objects

Device identification	SORG2000-B45N-C1-PKS	SORG2000-B45N-C1-NKS
Sensing range Output	0 mm ... 2,000 mm with 50 x 50 mm ² reflector DC, PNP	0 mm ... 2,000 mm with 50 x 50 mm ² reflector DC, NPN
Operating data Polarized Reference value Range setting Switching frequency (1:1) / response time Readiness delay Range hysteresis Detectable object:	yes Reflector 50 x 50 mm ² with +/- keys max. 1 kHz / ≤ 3 ms < 80 ms, with Einschaltnorm adjustable opaque, transparent (z.B. Klarglas, PET, Folien)	yes Reflektor 50 x 50 mm ² with +/- keys max. 1 kHz / ≤ 3 ms < 80 ms, with Einschaltnorm adjustable opaque, transparent (z.B. Klarglas, PET, Folien)
LED red LED yellow LED green Type of light External light limit (daylight / halogen light)	Stability control output flashing 2 Hz, Fault indication in teach-in mode 1,5 s switching condition operating status, in teach-in mode flashing visible red light 660 nm ≤ 10,000 Lux / ≤ 7,500 Lux	Stability control output flashing 2 Hz, Fault indication in teach-in mode 1,5 s switching condition operating status, in teach-in mode flashing visible red light 660 nm ≤ 10,000 Lux / ≤ 7,500 Lux
Operating temperature range Storage temperature range	-25 °C ... +55 °C -40 °C ... +55 °C	-25 °C ... +55 °C -40 °C ... +55 °C
Electrical data Operating voltage Idle current Rated operational current Line voltage drop Input voltage Short-circuit and overload protection Inverse polarity protection	10 VDC ... 30 VDC ±10% ca. 25 mA 200 mA ≤ 2,5 V for control / test: < 2 V off / > 7 V on yes yes	10 VDC ... 30 VDC ±10% ca. 25 mA 200 mA ≤ 2,5 V for control / test: < 2 V off / > 7 V on yes yes
Mechanical data Protection class acc. to EN 60529 Optical system Permissible shock- and vibration resistance Connection type 90 ° schwenkbar Housing material Weight In compliance with	> IP 67, materials approved for use in food production PMMA lenses shock b ≤ 30 g, T ≤ 11 ms vibrations f ≤ 55 Hz, a ≤ 1mm Connector M12 x 1, 5 - pole, 90 ° pivoting PBT (Grastin), plug and dovetail AISI 60 g EN 60 947-5-2	> IP 67, materials approved for use in food production PMMA lenses shock b ≤ 30 g, T ≤ 11 ms vibrations f ≤ 55 Hz, a ≤ 1mm Connector M12 x 1, 5 - pole, PBT (Grastin), plug and dovetail AISI 60 g EN 60 947-5-2

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Output signals



Approximate dimensions

