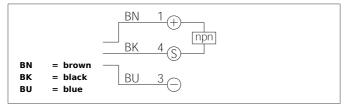
## OEV 51 M 10000 N3K-TSSL Through Beam Sensor, Receiver



- Bright alignment aid via LED in receiver optics
- Red light
- High operating distance
- Light/dark switching
- High operating frequency
- Robust metal casing





## Safety instructions

The Instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments.

These instruments shall exclusively be used by qualified personnel.

Operating principleThrough beam sensors, receiver, switching outputEvaluationdigitalSize50 x 40 x 15 mm (Dimensions)Designcuboid designService voltage10 35 V DCInternal power consumption< 35 mAOperating distance10.000 mmResolutionØ 3 mmSensitivity adjustmentpotentiometerSwitching outputnpn, 200 mA, NO/NC, switchableSwitching hysteresis< 12 %Voltage drop< 2,0 VSwitching frequency800 Hz (up to 5,0 m), 400 Hz (up to 5,0 m)Ambient light immunity20 kLx, at 10° angle of irradiation, 5 kLx, at 5° angle of irradiationInstalation voltage endurance500 VProtection classIP 67Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)ConnectionConnector, M8, 3-poled	TECHNICAL INFORMATION (typ.)	+20°C, 24V DC
Size50 × 40 × 15 mm (Dimensions)Designcuboid designService voltage10 35 V DCInternal power consumption< 35 mA	Operating principle	Through beam sensors, receiver, switching output
Designcuboid designService voltage10 35 V DCInternal power consumption< 35 mA	Evaluation	digital
Service voltage10 35 V DCInternal power consumption< 35 mA	Size	50 x 40 x 15 mm (Dimensions)
Internal power consumption< 35 mAOperating distance10.000 mmResolutionØ 3 mmSensitivity adjustmentpotentiometerSwitching outputnpn, 200 mA, NO/NC, switchableSwitching hysteresis< 12 %	Design	cuboid design
Operating distance10.000 mmResolutionØ 3 mmSensitivity adjustmentpotentiometerSwitching outputnpn, 200 mA, NO/NC, switchableSwitching hysteresis< 12 %	Service voltage	10 35 V DC
ResolutionØ 3 mmSensitivity adjustmentpotentiometerSwitching outputnpn, 200 mA, NO/NC, switchableSwitching hysteresis< 12 %	Internal power consumption	< 35 mA
Sensitivity adjustmentpotentiometerSwitching outputnpn, 200 mA, NO/NC, switchableSwitching hysteresis< 12 %	Operating distance	10.000 mm
Switching outputnpn, 200 mA, NO/NC, switchableSwitching hysteresis< 12 %	Resolution	Ø 3 mm
Switching hysteresis< 12 %Voltage drop< 2,0 V	Sensitivity adjustment	potentiometer
Voltage drop< 2,0 VSwitching frequency800 Hz (up to 5,0 m), 400 Hz (up to 5,0 m)Ambient temperature-25 +60 °CAmbient light immunity20 kLx, at 10° angle of irradiation, 5 kLx, at 5° angle of irradiationInsulation voltage endurance500 VProtection classIP 67Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Switching output	npn, 200 mA, NO/NC, switchable
Switching frequency800 Hz (up to 5,0 m), 400 Hz (up to 5,0 m)Ambient temperature-25 +60 °CAmbient light immunity20 kLx, at 10° angle of irradiation, 5 kLx, at 5° angle of irradiationInsulation voltage endurance500 VProtection classIP 67Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Switching hysteresis	< 12 %
Ambient temperature-25 +60 °CAmbient light immunity20 kLx, at 10° angle of irradiation, 5 kLx, at 5° angle of irradiationInsulation voltage endurance500 VProtection classIP 67Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Voltage drop	< 2,0 V
Ambient light immunity20 kLx, at 10° angle of irradiation, 5 kLx, at 5° angle of irradiationInsulation voltage endurance500 VProtection classIP 67Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Switching frequency	800 Hz (up to 5,0 m), 400 Hz (up to 5,0 m)
Insulation voltage endurance500 VProtection classIP 67Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Ambient temperature	-25 +60 °C
Protection classIP 67Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Ambient light immunity	20 kLx, at 10° angle of irradiation, 5 kLx, at 5° angle of irradiation
Protection degreeIII, operation on protective low voltageCasing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Insulation voltage endurance	500 V
Casing materialDie-cast zinc black lacquered finishMaterialpolymethyl methacrylate (Window)	Protection class	IP 67
Material polymethyl methacrylate (Window)	Protection degree	III, operation on protective low voltage
	Casing material	Die-cast zinc black lacquered finish
Connection Connector, M8, 3-poled	Material	polymethyl methacrylate (Window)
	Connection	Connector, M8, 3-poled