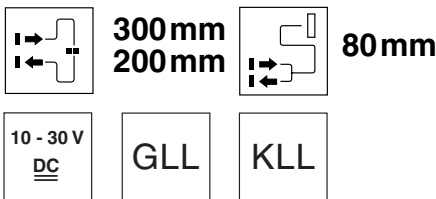




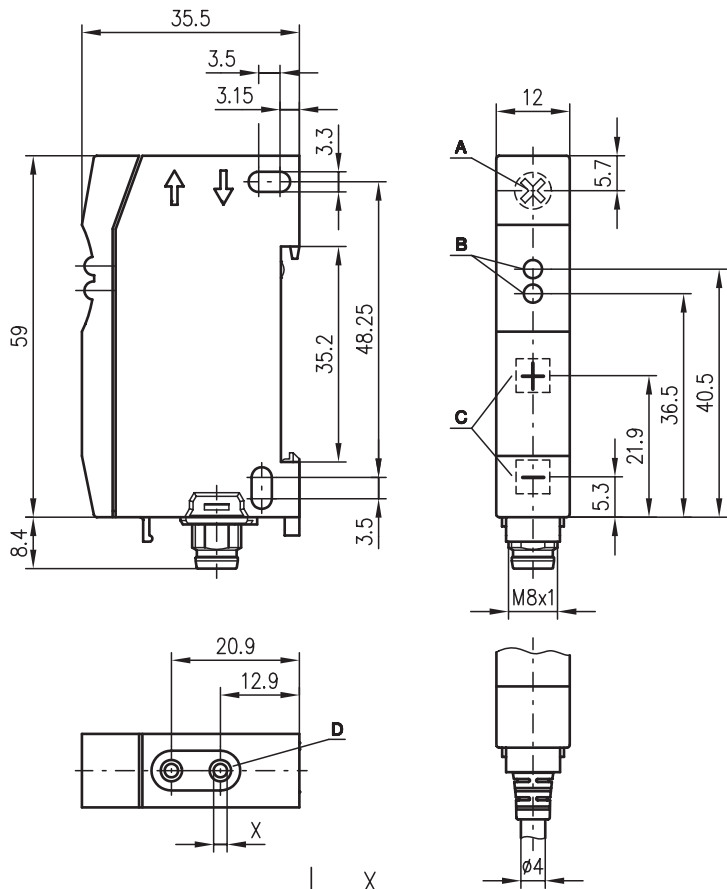
LVSR 325

Fibre optic cable control devices



- Easy calibration with "Teach-in" for optimum sensitivity adjustment
- Warning output autoControl for increased availability
- Control input for activation or for remote calibration
- Parameterisation via optical interface with PC or handheld (e.g. time delay)
- Indicator diode for switching state, performance reserve and readiness
- High switching frequency for detection of fast events
- Mounting holes or top hat rail mounting for universal and fast installation

Dimensioned drawing

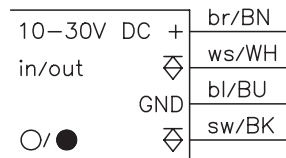


	X
LVSR 325K/P-201	Ø 2,2
LVSR 325K/P-202-S8	Ø 2,2
LVSR 325K/N-202-S8	Ø 2,2
LVSR 325K/P-401	Ø 4
LVSR 325K/P-402-S8	Ø 4

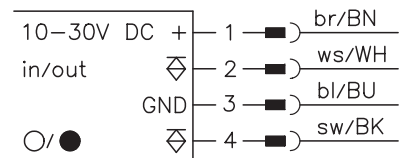
- A Fibre optic cable fixing screw
- B Indicator diodes
- C Sensitivity adjustment
- D Fibre optic cable input

Electrical connection

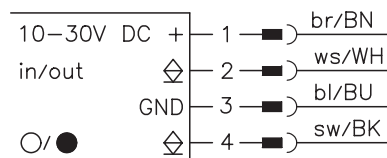
LVSR 325K/P-201
LVSR 325K/P-401



LVSR 325K/P-202-S8
LVSR 325K/P-402-S8



LVSR 325K/N-202-S8



We reserve the right to make changes • LSG_e07e.fm



Accessories

(available separately)

- Glass fibre optic cable
- Plastic fibre optic cable
- M8 connectors (KD ...)
- Programming cable
- Handheld programming device
- Mounting device
- Programming software



Specifications

Optical data

Operating range/scanning range ¹⁾Light source
Wavelength

Timing

Switching frequency
Response time
Delay before start-up

Electrical data

Operating voltage U_B
Residual ripple
Bias current
Inputs/OutputsSignal voltage high/low
Output current
Control input ³⁾
Sensitivity

Display

LED yellow
LED redLED red flashing
LED green
LED green flashing

Mechanical data

Housing
Weight
Connection

Fibre optic cable connection

Environmental data

Ambient temp. (operation/storage) -20°C ... +70°C/-40°C ... +75°C
Protective circuit ⁴⁾ 2, 3
Protection class IP 65

- 1) Operating range/scanning range: recommended range/scanning range with performance reserve
 2) Factory setting
 3) Internal resistance 20kOhm, delay before start-up/turn-off ≤ 3 ms
 4) 2=polarity reversal protection, 3=short-circuit protection for all outputs

Throughbeam operation

300mm (glass FOC)
200mm (plastic FOC)
LED (modulated light)
660nm (red light)1500Hz
0.33ms
 ≤ 300 ms

10 ... 30VDC (incl. residual ripple)

$\leq 10\%$ of U_B
 ≤ 25 mA
 adjustable:
 2 switching output, complementary ²⁾
 switching output and warning output
 switching output and control input
 $\geq (U_B - 2V) / \leq 2V$
 together max. 200mA
 not active $\leq 2V$ /active $\geq 7V$
 adjustable via 2 buttons
 automatically per "Teach-in" (simultaneously depress both buttons)
 step wise per button "+" and "-"

switching state
 failure display in learning mode 1.5s
 remote indication at recognised key depression 65ms
 no performance reserve
 ready
 display in learning mode

plastic
 30g
 M8 connector, 4-pin
 cable 2m, 4x0.2mm²
 screw connection for:
 plastic fibre optic cable $\varnothing 2.2$ mm
 glass fibre optic cable $\varnothing 4$ mm

Scanning operation

80mm (glass FOC)
80mm (plastic FOC)

Remarks

● Unlock keyboard

The "automatic keyboard lock" is active in the default settings. Press both buttons for 5s to unlock it (until green LED flashes once). 4 min. after the last button action, the keyboard locks itself.

● Manual adjustment

Bring the object to be detected in the desired distance into the detection range. Using the buttons "+" and "-" the sensitivity of the sensor can be adjusted (red LED flashes any time a button is pressed, yellow LED displays switching state). Buttons are equipped with a repeat-function (depressing of button repeats itself automatically).

Note:

The limit of the keyboard potentiometer is reached if the red LED does not flash while pressing a button.

● Teach-in event

Press both buttons "+" and "-" simultaneously (approx. 1s) until the lit red LED goes off. The sensor is now in "learning mode" and displays this through flashing (2Hz) of the green LED. Bring the object to be detected at the desired distance into the detection range or move the object through the detection range at the desired distance. The green LED shortly flashes at a higher frequency (4Hz). As soon as the LED flashes with the initial frequency, the learning mode is finished. To finish the teach-in press one of the two buttons "+" or "-". The sensor switches the green LED to permanent light and displays the detection state with the yellow LED.

Order guide

	Designation	Part No.
glass fibre optic cable $\varnothing 4$mm and PNP output		
M8 connector	LVSR 325K/P-402-S8	500 81301
cable	LVSR 325K/P-401	500 81300
plastic fibre optic cable $\varnothing 2.2$mm and PNP output		
M8 connector	LVSR 325K/P-202-S8	500 81298
cable	LVSR 325K/P-201	500 81297
plastic fibre optic cable $\varnothing 2.2$mm and NPN output		
M8 connector	LVSR 325K/N-202-S8	500 33579