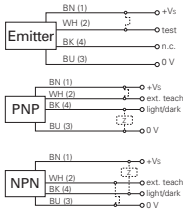


# MINOS

## Diffuse sensors

### Technology

Sensing distance (Tw) / actual range (Sb)



### Emitter

cable rear side  
cable bottom side

### PNP

cable rear side  
cable bottom side

### NPN

cable rear side  
cable bottom side

### technical data

sensing distance adjustable Tw	20...150 mm
sensing range Tb at Tw = 60 mm	-
sensing range Tb at Tw = 10 mm	-
nominal range Sn	-
actual range Sb	-
receiving indicator	green LED
alignment aid / soiled lens indicator	flashing green LED
output indicator	yellow LED
light source / wave length	pulsed red LED / 660 nm
voltage supply range	10 - 30 VDC
max. supply current average value / peak value	20 mA / 25 mA
max. switching current	100 mA
voltage drop	≤ 1,8 VDC
response time	< 0,5 ms
release time	< 0,5 ms
sensitivity adjustment	Teach-in button or Teach-in wire input
static Teach-in	⌀ 2 sec. > ⌀ ON-position > ⌀ OFF-position
dynamic Teach-in	⌀ 5 sec. > sensing objects > ⌀ quit
test input	emitter OFF
test input	emitter ON
short circuit protection	yes
reverse polarity protection	yes
temperature range	-20...+50 °C
housing material	PMMA, MABS, PA
protection class	IP 65

Options	foreground suppression	<b>PNP</b>
	foreground suppression	<b>NPN</b>

### Connectors

4 pin

ESW 31AH0200 angular cable 2 m PUR  
ESG 32AH0200 straight cable 2 m PUR (halogen-free)

### Mounting kit MINOFIX

see cover back page

### Version flylead connector

M8



cable length: 0,2 m

### Intensity difference

Tw 150 mm



### Background suppression

Tw 60 mm



### cable

### flylead connector

<b>FZCK 07P6901</b>	<b>FZCK 07P6901/KS35A</b>
<b>FZDK 07P6901</b>	<b>FZDK 07P6901/KS35A</b>
<b>FZCK 07N6901</b>	<b>FZCK 07N6901/KS35A</b>
<b>FZDK 07N6901</b>	<b>FZDK 07N6901/KS35A</b>

### cable

### flylead connector

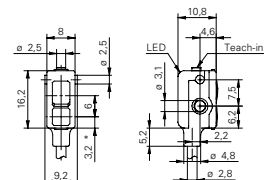
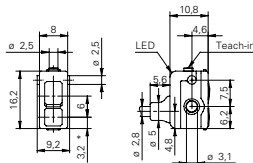
<b>FHCK 07P6901</b>	<b>FHCK 07P6901/KS35A</b>
<b>FHDK 07P6901</b>	<b>FHDK 07P6901/KS35A</b>
<b>FHCK 07N6901</b>	<b>FHCK 07N6901/KS35A</b>
<b>FHDK 07N6901</b>	<b>FHDK 07N6901/KS35A</b>

sensing distance adjustable Tw	20...150 mm
sensing range Tb at Tw = 60 mm	-
sensing range Tb at Tw = 10 mm	-
nominal range Sn	-
actual range Sb	-
receiving indicator	green LED
alignment aid / soiled lens indicator	flashing green LED
output indicator	yellow LED
light source / wave length	pulsed red LED / 660 nm
voltage supply range	10 - 30 VDC
max. supply current average value / peak value	20 mA / 25 mA
max. switching current	100 mA
voltage drop	≤ 1,8 VDC
response time	< 0,5 ms
release time	< 0,5 ms
sensitivity adjustment	Teach-in button or Teach-in wire input
static Teach-in	⌀ 2 sec. > ⌀ ON-position > ⌀ OFF-position
dynamic Teach-in	⌀ 5 sec. > sensing objects > ⌀ quit
test input	-
test input	-
short circuit protection	yes
reverse polarity protection	yes
temperature range	-20...+50 °C
housing material	PMMA, MABS, PA
protection class	IP 65

sensing distance adjustable Tw	10...60 mm
sensing range Tb at Tw = 60 mm	2...60 mm
sensing range Tb at Tw = 10 mm	5...10 mm
nominal range Sn	-
actual range Sb	-
receiving indicator	green LED
alignment aid / soiled lens indicator	flashing green LED
output indicator	yellow LED
light source / wave length	pulsed red LED / 660 nm
voltage supply range	10 - 30 VDC
max. supply current average value / peak value	20 mA / 25 mA
max. switching current	100 mA
voltage drop	≤ 1,8 VDC
response time	< 0,5 ms
release time	< 0,5 ms
sensitivity adjustment	Teach-in button or Teach-in wire input
static Teach-in	⌀ 2 sec. > ⌀ ON-position > ⌀ OFF-position
dynamic Teach-in	⌀ 5 sec. > sensing objects > ⌀ quit
test input	-
test input	-
short circuit protection	yes
reverse polarity protection	yes
temperature range	-20...+50 °C
housing material	PMMA, MABS, PA
protection class	IP 65

Options	foreground suppression	<b>PNP</b>
Options	foreground suppression	<b>NPN</b>

Options	foreground suppression	yes
Options	foreground suppression	yes



\* emitter axis

## Retro-reflective sensors

Polarization filter

Sb 500 mm



## Through beam sensors

Emitter

Sb 2,0 m

Receiver

Sb 2,0 m



cable	flylead connector
FPCK 07P6901	FPCK 07P6901/KS35A
FDPK 07P6901	FDPK 07P6901/KS35A
FPCK 07N6901	FPCK 07N6901/KS35A
FDPK 07N6901	FDPK 07N6901/KS35A

cable	flylead connector
FSDK 07D9601	FSDK 07D9601/KS35A
FSDK 07D9601	FSDK 07D9601/KS35A

cable	flylead connector
FECK 07P6901	FECK 07P6901/KS35A
FEDK 07P6901	FEDK 07P6901/KS35A
FECK 07N6901	FECK 07N6901/KS35A
FEDK 07N6901	FEDK 07N6901/KS35A

-	-
-	-
-	-
-	-
600 mm	2,5 m
500 mm	2,0 m
green LED	-
flashing green LED	-
yellow LED	-
pulsed red LED / 660 nm	pulsed red LED / 660 nm
10 - 30 VDC	10 - 30 VDC
20 mA / 25 mA	12 mA / 20 mA
100 mA	-
≤ 1,8 VDC	-
< 0,5 ms	-
< 0,5 ms	-
Teach-in button or Teach-in wire input	-
⌀ 2 sec. > ⌀ ON-position > ⌀ OFF-position	-
⌀ 5 sec. > sensing objects > ⌀ quit	-
-	-
-	Teach-in button or +Vs
-	0 V or not connected
yes	-
yes	yes
-20...+50 °C	-20...+50 °C
PMMA, MABS, PA	PMMA, MABS, PA
IP 65	IP 65

-	-
-	-
-	-
-	-
2,5 m	2,5 m
2,0 m	2,0 m
-	green LED
-	flashing green LED
-	yellow LED
-	-
pulsed red LED / 660 nm	-
10 - 30 VDC	10 - 30 VDC
12 mA / 20 mA	20 mA / 20 mA
-	100 mA
-	≤ 1,8 VDC
-	< 0,5 ms
-	< 0,5 ms
-	Teach-in button or Teach-in wire input
-	⌀ 2 sec. > ⌀ ON-position > ⌀ OFF-position
-	⌀ 5 sec. > sensing objects > ⌀ quit
-	-
-	-
-	yes
-	yes
-20...+50 °C	-20...+50 °C
PMMA, MABS, PA	PMMA, MABS, PA
IP 65	IP 65

-	-
-	-
-	-
-	-
2,5 m	2,5 m
2,0 m	2,0 m
-	green LED
-	flashing green LED
-	yellow LED
-	-
-	-
10 - 30 VDC	10 - 30 VDC
20 mA / 20 mA	20 mA / 20 mA
100 mA	100 mA
≤ 1,8 VDC	≤ 1,8 VDC
< 0,5 ms	< 0,5 ms
< 0,5 ms	< 0,5 ms
Teach-in button or Teach-in wire input	Teach-in button or Teach-in wire input
⌀ 2 sec. > ⌀ ON-position > ⌀ OFF-position	⌀ 2 sec. > ⌀ ON-position > ⌀ OFF-position
⌀ 5 sec. > sensing objects > ⌀ quit	⌀ 5 sec. > sensing objects > ⌀ quit
-	-
-	-
-	yes
-	yes
-20...+50 °C	-20...+50 °C
PMMA, MABS, PA	PMMA, MABS, PA
IP 65	IP 65

