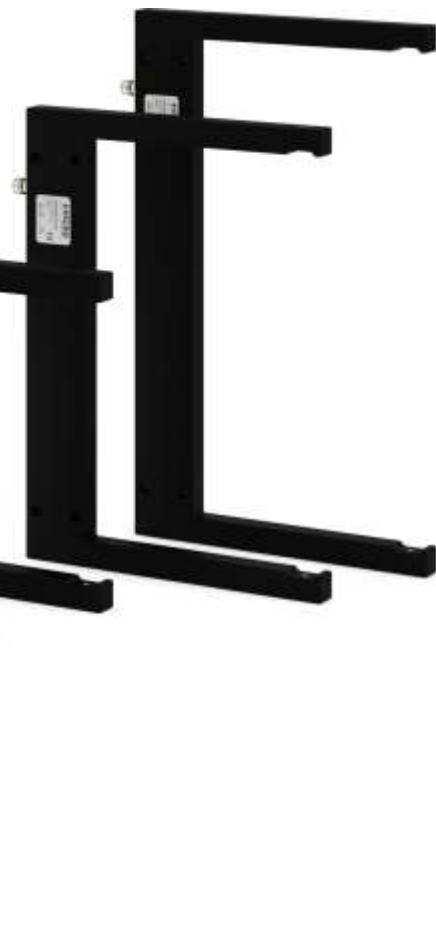


# Fork Light Barriers

## Gabellichtschranken

- Rotlicht, kollimiert
- Laser, kollimiert
- Infrarot

- ▶ One-piece housings only
- ▶ Ausschließlich einteilige Gehäuse
- ▶ Identical dimensions for laser, red light, and infrared light versions
- ▶ Identische Abmessungen für Laser-, Rotlicht- und Infrarotlicht-Ausführungen
- ▶ Potentiometer or Teach-in function
- ▶ Potentiometer oder Teach-in-Funktion
- ▶ Static and dynamic evaluation
- ▶ Statische und dynamische Auswertung
- ▶ High switching frequency
- ▶ Hohe Schaltfrequenz
- ▶ High ambient light immunity
- ▶ Hohe Fremdlichtunempfindlichkeit
- ▶ NO↔NC switchable
- ▶ NO↔NC umschaltbar
- ▶ 20 ms impulse lengthening selectable
- ▶ 20 ms Impulsverlängerung aktivierbar



Technical data (typ.)	
Supply voltage	10...35 V <sub>DC</sub>
Reverse polarity protection	built-in
Current consumption	<50 mA
Current load capability	200 mA
Short circuit protection	built-in, self-resetting
Impulse lengthening	20 ms, selectable*
<b>Red light · Infrared light</b>	
Operating temperature	−20...+55 °C   −4...+131 °F
<b>Laser · Laser</b>	
Operating temperature	−10...+45 °C   14...+113 °F
Laser protection class	1 (EN 60825-1)
Ambient light immunity	100 kLux
Switching indicator	LED, yellow
Housing material	zinc die-cast, powder coated
IP code	IP67

\* selected models

Technische Daten (typ.)		
Versorgungsspannung	10...35 V <sub>DC</sub>	
Verpolungsschutz	integriert	
Eigenstromaufnahme	<50 mA	
Ausgangsbelastbarkeit	200 mA	
Kurzschlusschutz	integriert, selbstrückstellend	
Impulsverlängerung	20 ms, zuschaltbar*	
<b>Rotlicht · Infrarotlicht</b>		
Betriebstemperatur	−20...+55 °C	
<b>Laser · Laser</b>		
Betriebstemperatur	−10...+45 °C	
Laserschutzklasse	1 (EN 60825-1)	
Fremdlichtunempfindlichkeit	100 kLux	
Schaltanzeige	LED, gelb	
Gehäusematerial	Zinkdruckguss, pulverbeschichtet	
Schutzart	IP67	

\* ausgewählte Modelle

# Red light · Rotlicht

Fork opening [mm] Gabelweite [mm]	Resolution [Ø mm] Auflösung [Ø mm]	Switching frequency [Hz] Schaltfrequenz [Hz]	Repeatability [mm] Wiederholgenauigkeit [mm]	Red light: $\lambda = 630$ nm, modulated Rotlicht: $\lambda = 630$ nm, moduliert	Infrared: $\lambda = 940$ nm, modulated Infrarot: $\lambda = 940$ nm, moduliert	Potentiometer for sensitivity adjustment Potentiometer für Empfindlichkeitseinstellung	Selectable impulse lengthening 20 ms Zuschaltbare Impulsverlängerung 20 ms	IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1	Order code Bestellnummer	Teach button for sensitivity adjustment Teach-Taste für Empfindlichkeitseinstellung	Selectable impulse lengthening 20 ms Zuschaltbare Impulsverlängerung 20 ms	IO-Link capable, protocol 1.1 IO-Link-fähig, Protokoll 1.1	Order code Bestellnummer
<b>Standard version · Standardausführung</b>													
10	0.5	2500	0.02	✓	✓				FIS10P-PS-A8				
20	0.5	2500	0.02	✓		✓			FRS20P-PS-A8				
30	0.5	2500	0.02	✓		✓			FRS30P-PS-A8				
40	0.5	2500	0.02	✓		✓			FRS40P-PS-A8				
50	0.5	2500	0.02	✓		✓			FRS50P-PS-A8				
60	0.5	2500	0.02	✓		✓			FRS60P-PS-A8				
70	0.5	2500	0.02	✓		✓			FRS70P-PS-A8				
80	0.5	2500	0.02	✓		✓			FRS80P-PS-A8				
90	0.5	2500	0.02	✓		✓			FRS90P-PS-A8				
100	0.6	2500	0.02	✓		✓			FRS100P-PS-A8				
120	0.7	2500	0.02	✓		✓			FRS120P-PS-A8				
180	0.8	2500	0.02	✓		✓			FRS180P-PS-A8				
220	0.9	2500	0.02	✓		✓			FRS220P-PS-A8				
<b>High resolution · Hochauflösend</b>													
10	0.2	5000	0.01	✓	✓	✓			FIH10P-PS-A8	✓	✓	✓	FIH10T-PS-A8
20	0.2	5000	0.01	✓		✓	✓		FRH20P-PS-A8	✓	✓	✓	FRH20T-PS-A8
30	0.2	5000	0.01	✓		✓	✓		FRH30P-PS-A8	✓	✓	✓	FRH30T-PS-A8
40	0.2	5000	0.01	✓		✓	✓		FRH40P-PS-A8	✓	✓	✓	FRH40T-PS-A8
50	0.2	5000	0.01	✓		✓	✓		FRH50P-PS-A8	✓	✓	✓	FRH50T-PS-A8
60	0.2	5000	0.01	✓		✓	✓		FRH60P-PS-A8	✓	✓	✓	FRH60T-PS-A8
70	0.2	5000	0.01	✓		✓	✓		FRH70P-PS-A8	✓	✓	✓	FRH70T-PS-A8
80	0.2	5000	0.01	✓		✓	✓		FRH80P-PS-A8	✓	✓	✓	FRH80T-PS-A8
90	0.2	5000	0.01	✓		✓	✓		FRH90P-PS-A8	✓	✓	✓	FRH90T-PS-A8
100	0.2	5000	0.01	✓		✓	✓		FRH100P-PS-A8	✓	✓	✓	FRH100T-PS-A8
120	0.2	5000	0.01	✓		✓	✓		FRH120P-PS-A8	✓	✓	✓	FRH120T-PS-A8
180	0.2	5000	0.01	✓		✓	✓		FRH180P-PS-A8	✓	✓	✓	FRH180T-PS-A8
220	0.2	5000	0.01	✓		✓	✓		FRH220P-PS-A8	✓	✓	✓	FRH220T-PS-A8



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Änderungen vorbehalten



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	Fork opening [mm]	Gabelweite [mm]	Resolution [Ø mm]	Auflösung [Ø mm]	Switching frequency [Hz]	Schaltfrequenz [Hz]	Repeatability [mm]	Wiederholgenauigkeit [mm]	Red light, $\lambda = 630$ nm, modulated	Infrared, $\lambda = 630$ nm, modulated	Infrared, $\lambda = 940$ nm, modulated	Potentiometer for sensitivity adjustment	Selectable on-delay 50 ms	IO-Link capable, protocol 1.1	Order code Bestellnummer	Teach-in button for sensitivity adjustment	Teach-in-Taste für Empfindlichkeitseinstellung	Selectable impulse lengthening 20 ms	IO-Link capable, protocol 1.1	Order code Bestellnummer
<b>Dynamic evaluation · dynamische Auswertung</b>																				
10	0.2	5000	0.01			✓										✓	✓	✓	FIH10D-PS-A8	
20	0.2	5000	0.01	✓												✓	✓	✓	FRH20D-PS-A8	
30	0.2	5000	0.01	✓												✓	✓	✓	FRH30D-PS-A8	
40	0.2	5000	0.01	✓												✓	✓	✓	FRH40D-PS-A8	
50	0.2	5000	0.01	✓												✓	✓	✓	FRH50D-PS-A8	
60	0.2	5000	0.01	✓												✓	✓	✓	FRH60D-PS-A8	
70	0.2	5000	0.01	✓												✓	✓	✓	FRH70D-PS-A8	
80	0.2	5000	0.01	✓												✓	✓	✓	FRH80D-PS-A8	
90	0.2	5000	0.01	✓												✓	✓	✓	FRH90D-PS-A8	
100	0.2	5000	0.01	✓												✓	✓	✓	FRH100D-PS-A8	
120	0.2	5000	0.01	✓												✓	✓	✓	FRH120D-PS-A8	
180	0.2	5000	0.01	✓												✓	✓	✓	FRH180D-PS-A8	
220	0.2	5000	0.01	✓												✓	✓	✓	FRH220D-PS-A8	
<b>increased contamination resistance · erhöhte Schmutzunempfindlichkeit</b>																				
10	0.5	250	0.1			✓	✓	✓						FIC10P-PS-A8						
20	0.5	250	0.1			✓	✓	✓						FIC20P-PS-A8						
30	0.5	250	0.1			✓	✓	✓						FIC30P-PS-A8						
40	0.5	250	0.1			✓	✓	✓						FIC40P-PS-A8						
50	0.5	250	0.1			✓	✓	✓						FIC50P-PS-A8						
60	0.5	250	0.1			✓	✓	✓						FIC60P-PS-A8						
70	0.5	250	0.1			✓	✓	✓						FIC70P-PS-A8						
80	0.5	250	0.1			✓	✓	✓						FIC80P-PS-A8						
90	0.5	250	0.1			✓	✓	✓						FIC90P-PS-A8						
100	0.6	250	0.1			✓	✓	✓						FIC100P-PS-A8						
120	0.7	250	0.1			✓	✓	✓						FIC120P-PS-A8						
180	0.8	250	0.1			✓	✓	✓						FIC180P-PS-A8						
220	0.9	250	0.1			✓	✓	✓						FIC220P-PS-A8						

# ⚠ Laser



⚠ Laser standard version · Laser Standardausführung									
10									
20	0.1	2500	0.01	✓		✓			FLS20P-PS-A8
30	0.1	2500	0.01	✓		✓			FLS30P-PS-A8
40	0.1	2500	0.01	✓		✓			FLS40P-PS-A8
50	0.1	2500	0.01	✓		✓			FLS50P-PS-A8
60	0.1	2500	0.01	✓		✓			FLS60P-PS-A8
70	0.1	2500	0.01	✓		✓			FLS70P-PS-A8
80	0.1	2500	0.01	✓		✓			FLS80P-PS-A8
90	0.1	2500	0.01	✓		✓			FLS90P-PS-A8
100	0.1	2500	0.01	✓		✓			FLS100P-PS-A8
120	0.1	2500	0.01	✓		✓			FLS120P-PS-A8
180	0.1	2500	0.01	✓		✓			FLS180P-PS-A8
220	0.1	2500	0.01	✓		✓			FLS220P-PS-A8

⚠ Laser high resolution · Laser hochauflösend									
10									
20	0.03	5000	0.01	✓		✓	✓		FLH20T-PS-A8
30	0.03	5000	0.01	✓		✓	✓		FLH30T-PS-A8
40	0.03	5000	0.01	✓		✓	✓		FLH40T-PS-A8
50	0.03	5000	0.01	✓		✓	✓		FLH50T-PS-A8
60	0.03	5000	0.01	✓		✓	✓		FLH60T-PS-A8
70	0.03	5000	0.01	✓		✓	✓		FLH70T-PS-A8
80	0.03	5000	0.01	✓		✓	✓		FLH80T-PS-A8
90	0.03	5000	0.01	✓		✓	✓		FLH90T-PS-A8
100	0.03	5000	0.01	✓		✓	✓		FLH100T-PS-A8
120	0.03	5000	0.01	✓		✓	✓		FLH120T-PS-A8
180	0.03	5000	0.01	✓		✓	✓		FLH180T-PS-A8
220	0.03	5000	0.01	✓		✓	✓		FLH220T-PS-A8



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