

Light barrier

with cable

Type 18034433, 18034434

Polarized reflection light barrier with long range in visible red light including signal cable.

- Robust plastic housing with degree of protection IP 67
- Voltage range 10 ... 30 VDC
- Terminal connection with M16 screw connection
- Alarm output
- Accessories included: cable, suction holder, reflective film, software, transport case
- Optionally with DTI or Open Collector (NPN / PNP output)



Technical data

Performance specifications		18034433 (DTI)	18034434 (standard)
Range ¹⁾	m	0.03 ... 22	
Light source	LED	visible red light	
Wavelength	nm	660	
Light spot diameter	ø mm	250	
Distance	m	15	
Operation mode light/dark switching		not selectable	selectable
Response time ²⁾	µs	≤500	
Switching frequency ³⁾	kHz	1	

System specifications

Power supply U_B ¹⁾	VDC	10 ... 30	
Residual ripple ⁴⁾	V_{SS}	<5	
Power consumption	mA	≤50	
Switch output		NPN	NPN / PNP
Switch mode		not selectable	selectable
Temperature range			
Operation	°C	-40 ... 60	
Storage	°C	-40 ... 75	
Degree of protection		IP67	
Circuit protection		various ⁵⁾ ⁶⁾ ⁷⁾	
Dimensions (LxWxH)	mm	92x27x70	
Weight	grams	140	
Housing material		ABS	
Polarizing filter		yes	
Reflective film (length)	m	4	

Kistler DTI technology

With the DTI technology, a single end-to-end bus wiring system is all that is required to take the measurement signals from every sensor to the data recorder. DTI converts each signal into a unique, time stamped digital output either directly in the Kistler DTI sensors, or via suitable DTI converters for use with any existing sensors. The sensor data is collected at the central DTI logger and is transmitted via Ethernet to your laptop for evaluation. A single cable is all that is needed to configure the sensors, to transmit and synchronize the measurement data and to supply power. The automated sensor detection simplifies the test setup. The installation position, calibration values and relevant physical parameters are detected automatically by the Kistler measuring software (KiCenter) and can be configured using the GUI.

Ordering code

- Light barrier DTI, 8 pin LEMO **Type 18034433**
- Light barrier standard, 3 pin LEMO **Type 18034434**

¹⁾ Limit values

²⁾ Signal transit time with ohmic load

³⁾ With light/dark ratio 1:1

⁴⁾ Must not exceed or fall below U_V tolerances

⁵⁾ U_V connections reverse polarity protected

⁶⁾ Interference pulse suppression

⁷⁾ Outputs overload and short circuit protected