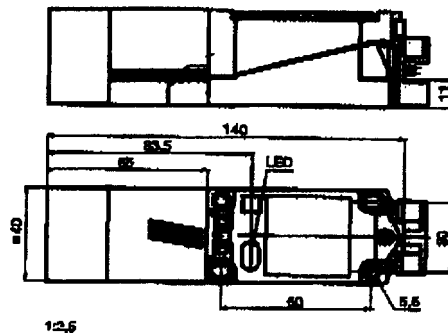


AS-Interface Sensor

Photoelectric

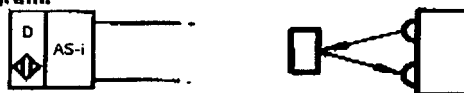
- Sensing range is adjustable to 2 m
- Weak signal indicator
- Cross talk protected
- Adjustable sensor head
- Protective class IP 67
- Scratch resistant glass lens
- Programmable light-on/dark-on operation
- Direct connection to the AS-i field cable
- AS-i Certificate



Sensing range	2 m	Programming instructions	
Model number	0070001 USA-B3	Address	preconfigured to 00, can be changed over the bus master or programming device
Connection	Cable piercing terminals for AS-i flat cables	IO-Code	1
Reference size [mm]	Standard white card 200 x 200	D-Code	1
Sensing range adjustment	150 mm ... 2000 mm	Data bit	
Distance hysteresis H _d [%]	≤ 10	Bit	Function
Sensing width hysteresis H _w [%]	≤ 3	D0	Switch status
Signal lengthening [ms]	Approximately 20, programmable	D1	Weak signal (0=ON; 1=OFF)
Operating mode	Programmable light/dark-on operation	D2	Operational
Light source [nm]	IR Light 850	D3	Switch frequency 200 Hz / 1.5 kHz
Light source life [h]	100.000	Parameter bit	
Ambient light resistance E _{FW}		Bit	Function(1/0)
Sun light [Lux]	≤ 10.000	P0	Signal frequency 1*/2
Halogen light [Lux]	≤ 10.000	P1	Light*/dark switching
Cross talk	2 Signal frequencies, programmable	P2	Signal lengthening off*/on
Operating voltage U _s	Over the AS-i bus system	P3	Weak signal static*/dynamic
Operating current I _s [mA]	≤ 40		*Standard adjustment
Switch frequency f _s [Hz]	200: Signal / Pause 1:1		
	1.5 kHz: Signal / Pause 1:1		
On delay t _s [ms]	2.5 at 200 Hz		
	0.3 at 1.5 kHz } prog.		
Readiness delay t _r [ms]	Approximately 20		
Indicators			
Switch status (D0=1)	LED yellow		
Supply voltage	DUAL-LED green		
Weak signal ²⁾	red, 2 Hz flashing		
Isolation voltage U _i [V]	≥ 500		
Per standard	EN 60947-5-2		
Ambient temperature t _a [°C]	-25 ... +70		
Storage temperature t _s [°C]	-40 ... +80		
Protective class per EN 60 529	IP 67, insulated		
Filter	Red filter		
Optics	2-lens		
Allowable shock and vibration stress	b ≤ 30 g, T ≤ 11 ms f ≤ 55 Hz, a ≤ 1 mm		
Weight [g]	260		

²⁾No weak signal at 1.5 kHz

Standard symbol, connection diagram:



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Subject to reasonable modifications due to technical advances.

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