



Proximity sensors

Selection guide proximity sensors. 122



Inductive proximity sensors 124

IM Miniature 124
IM Standard 126
IM Triplex. 129
IM Inox 132
IMF 134
IMA 136
IQ Miniature 138
IQ Standard 140
IQ Flat 142
IH Miniature 144
IH Standard 145



Capacitive proximity sensors 147

CM 147
CQ 149



Magnetic proximity sensors 150

MM 150
MM Namur. 152
MQ 154

Selection guide proximity sensors

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	Inductive proximity sensors											Capacitive proximity sensors		Magnetic proximity sensors		
	IM Miniature	IM Standard	IM Triplex	IM Inox	IMF Food & Beverage	IMA Analog	IQ Miniature	IQ Standard	IQ Flat	IH Miniature	IH Standard	CM	CQ	MM	MM Namur	MQ
Task																
Detection of metal	■	■	■	■	■	■	■	■	■	■	■					
Detection of powders, granules, liquid, solid												■	■			
Detection of magnets														■	■	■
Design																
Cylindrical	■	■	■	■	■	■						■		■	■	
Rectangular							■	■	■				■			■
Sleeve design										■	■					
Maximum sensing range in mm																
≤ 1	■						■			■						
≤ 2	■	■			■		■	■	■		■					
≤ 4		■	■		■	■	■	■	■		■					
≤ 8		■	■	■	■	■		■	■			■				
≤ 10		■	■	■	■	■		■				■	■			
≤ 20		■	■	■	■	■		■				■	■			
≤ 40			■	■		■		■				■	■			
≤ 60								■						■	■	■
≤ 120														■	■	
Housing material																
Plastic							■		■	■	■		■			■
VISTAL™								■								
Nickel-plated brass		■	■			■			■			■		■	■	
Stainless steel	■			■	■											
Special features																
Namur output															■	
Analog output						■										
Full metal sensors				■												
Triple sensing range			■	■												
IO-Link		■														
Special requirements																
Hygiene & wet areas				■	■											
Potentially explosive atmospheres															■	
High mechanical load capability				■												
Page	124	126	129	132	134	136	138	140	142	144	145	147	149	150	152	154

Dimensions of proximity sensors

	Inductive proximity sensors											Capacitive proximity sensors		Magnetic proximity sensors		
	IM Miniature	IM Standard	IM Triplex	IM Inox	IMF Food & Beverage	IWA Analog	IQ Miniature	IQ Standard	IQ Flat	IH Miniature	IH Standard	CM	CQ	MM	MM Namur	MQ
Thread size																
M4	■															
M5	■															
M8		■	■			■								■		
M12		■	■	■	■	■								■	■	
M18		■	■	■	■	■						■		■	■	
M30		■	■	■		■						■				
Dimensions in mm (W x H x D)																
5 x 5 x 25							■									
8 x 8 x 40							■									
8 x 16 x 4									■							
10 x 30 x 6									■							
10 x 16 x 28								■								
10.3 x 37 x 16																■
12 x 26 x 40								■								
20 x 32 x 8									■							
25 x 50 x 10									■							
28 x 46 x 5,5													■			
35 x 15 x 69.5													■			
40 x 40 x 66								■								
40 x 40 x 121								■								
80 x 40 x 105								■								
Diameter in mm																
Ø 3										■						
Ø 4										■						
Ø 6.5											■					
Page	124	126	129	132	134	136	138	140	142	144	145	147	149	150	152	154

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At a glance

- Small housing sizes and light weight
- Integrated LED indicator
- Rugged stainless steel housing
- M4 and M5 thread sizes available

Your benefits

- Trouble-free installation in space-critical applications provides a high degree of design freedom, saving machine space
- Reliable detection of rapid handling and assembly processes increases throughput
- High-visibility indicator LED for simple monitoring of operational state reduces commissioning time
- High positioning accuracy increases machine throughput
- High resistance to shock and vibrations reduces maintenance costs

www.mysick.com/en/IM_Miniature
For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.

Ordering information

Other models available at www.mysick.com/en/IM_Miniature

IM04

Housing	Sensing range S _n	Installation type	Output function	Output type	Connection	Model name	Part no.
M4 x 0,5	0.6 mm	Flush	NO	PNP	Cable, 3-wire, 2 m, PUR	IM04-0B6PS-ZU1	6020145
					Cable with plug, M8, 3-pin, with knurled screws, 0.2 m, PUR	IM04-0B6PS-ZR1	6042085
			NC	NPN	Cable, 3-wire, 2 m, PUR	IM04-0B6NS-ZU1	6020146
				PNP	Cable, 3-wire, 2 m, PUR	IM04-0B6PO-ZU1	6020147

IM05

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M5 x 0,5	0.8 mm	Flush	NO	PNP	Cable, 3-wire, 2 m, PVC	IM05-0B8PS-ZW1	6011591
					Connector M8, 3-pin	IM05-0B8PS-ZT1	6020110
				NPN	Cable, 3-wire, 2 m, PVC	IM05-0B8NS-ZW1	6020155
					Connector M8, 3-pin	IM05-0B8NS-ZT1	6020158
			NC	PNP	Connector M8, 3-pin	IM05-0B8PO-ZT1	6020159
				NPN	Cable, 3-wire, 2 m, PVC	IM05-0B8NO-ZW1	6020157
	1.5 mm	Flush	NO	PNP	Cable, 3-wire, 2 m, PUR	IM05-1B5PSVU2S	6049735
					Connector M8, 3-pin	IM05-1B5PSVT0S	6049739
				NPN	Cable, 3-wire, 2 m, PUR	IM05-1B5NSVU2S	6049733
					Connector M8, 3-pin	IM05-1B5NSVT0S	6049737
			NC	PNP	Cable, 3-wire, 2 m, PUR	IM05-1B5POVU2S	6049736
					Connector M8, 3-pin	IM05-1B5POVT0S	6049740
				NPN	Cable, 3-wire, 2 m, PUR	IM05-1B5NOVU2S	6049734
					Connector M8, 3-pin	IM05-1B5NOVT0S	6049738

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At a glance

- Precise operating distances due to ASIC technology
- Extra tough thanks to high fastener torque and hot melt adhesive filling
- M8 to M30 sizes available
- Operating distance from 1.5 mm to 20 mm
- IP 67 enclosure rating
- Operating temperature from -25 °C to +70 °C
- DC, AC and AC/DC versions available
- Customer-specific models available

Your benefits

- Reduced machine downtime
- Reduced mechanical damage
- Fewer maintenance costs due to longer service life
- High resistance to shock and vibrations

→ www.mysick.com/en/IM_Standard

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Ordering information

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IME08

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Housing	Model name	Part no.
M8 x 1	1.5 mm	Flush	NO	PNP	Connector M8, 3-pin	Standard	IME08-1B5PSZT0S	1040838
						Short-body housing	IME08-1B5PSZT0K	1040837
	2 mm	Non-flush	NO	PNP	Connector M8, 3-pin	Standard	IME08-02BPSZT0S	1040870
						Short-body housing	IME08-02BPSZT0K	1040869
	2.5 mm					Standard	IME08-2N5PSZT0S	1040854
						Short-body housing	IME08-2N5PSZT0K	1040853
	4 mm					Standard	IME08-04NPSZT0S	1040886
						Short-body housing	IME08-04NPSZT0K	1040885

IME12

Housing	Sensing range S _n	Installation type	Output function	Output type	Connection	Housing	Model name	Part no.
M12 x 1	2 mm	Flush	NO	PNP	Connector M12, 4-pin	Standard	IME12-02BPSZC0S	1040732
	Short-body housing					IME12-02BPSZC0K	1040731	
	Standard					IME12-04BPSZC0S	1040764	
	Short-body housing					IME12-04BPSZC0K	1040763	
	4 mm	Non-flush	NO	PNP	Connector M12, 4-pin	Standard	IME12-04NPSZC0S	1040748
	Short-body housing					IME12-04NPSZC0K	1040747	
	Standard					IME12-08NPSZC0S	1040780	
	Short-body housing					IME12-08NPSZC0K	1040779	
8 mm								







IME18

Housing	Sensing range S _n	Installation type	Output function	Output type	Connection	Housing	Model name	Part no.
M18 x 1	5 mm	Flush	NO	PNP	Connector M12, 4-pin	Standard	IME18-05BPSZCOS	1040934
						Short-body housing	IME18-05BPSZCOK	1040933
	8 mm					Standard	IME18-08BPSZCOS	1040966
						Short-body housing	IME18-08BPSZCOK	1040965
	12 mm	Non-flush	NO	PNP	Connector M12, 4-pin	Standard	IME18-08NPSZCOS	1040950
						Short-body housing	IME18-08NPSZCOK	1040949
						Standard	IME18-12NPSZCOS	1040982
						Short-body housing	IME18-12NPSZCOK	1040981

IME30

Housing	Sensing range S _n	Installation type	Output function	Output type	Connection	Housing	Model name	Part no.
M30 x 1.5	10 mm	Flush	NO	PNP	Connector M12, 4-pin	Standard	IME30-10BPSZC0S	1040998
						Short-body housing	IME30-10BPSZC0K	1040997
	15 mm					Standard	IME30-15BPSZC0S	1041030
						Short-body housing	IME30-15BPSZC0K	1041029
	20 mm	Non-flush	NO	PNP	Connector M12, 4-pin	Standard	IME30-15NPSZC0S	1041014
						Short-body housing	IME30-15NPSZC0K	1041013
						Standard	IME30-20NPSZC0S	1041046
						Short-body housing	IME30-20NPSZC0K	1041045

Accessories

	Accessory category	Accessory type	Material	Thread size	Model name	Part no.
	Mounting brackets/plates	Mounting brackets, straight	Steel, zinc coated	M12	BEF-WG-M12	5321869
				M18	BEF-WG-M18	5321870
				M30	BEF-WG-M30	5321871
		Mounting brackets, 90°		M12	BEF-WN-M12	5308447
				M18	BEF-WN-M18	5308446
				M30	BEF-WN-M30	5308445



At a glance

- Triple operating distance up to 40 mm
- Operating temperature from -25 °C to +70 °C
- High switching frequencies
- M8 to M30 housings

Your benefits

- Reduced machine downtime and maintenance costs
- Large operating reserve due to triple operating distance improves machine throughput – no missed targets
- Saves installation space on the machine. Less space required for the same operating distance when compared with standard sensors
- Lower risk of mechanical damage due to their ability to be mounted further from the target
- High level of sensitivity makes them suitable for detecting difficult parts such as wires, thin sheets, small screws – reduces design and installation time

→ www.mysick.com/en/IM_Triplex

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/IM_Triplex

IM08

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M8 x 1	3 mm	Quasi-flush	NO	PNP	Connector M8, 3-pin	IM08-03BPS-ZT1	6025574
					Cable, 3-wire, 2 m, PVC	IM08-03BPS-ZW1	6027505
				NPN	Cable, 3-wire, 2 m, PVC	IM08-03BNS-ZW1	6028074
	6 mm	Non-flush	NO	PNP	Connector M8, 3-pin	IM08-06NPS-ZT1	6027508
					Cable, 3-wire, 2 m, PVC	IM08-06NPS-ZW1	6027506
				NPN	Cable, 3-wire, 2 m, PVC	IM08-06NNS-ZW1	6027507

IM12

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M12 x 1	6 mm	Quasi-flush	NO	PNP	Connector M12, 4-pin	IM12-06BPS-ZC1	6027511
					Cable, 3-wire, 2 m, PVC	IM12-06BPS-ZW1	6027509
			NC	PNP	Connector M12, 4-pin	IM12-06BNS-ZC1	6030524
					Cable, 3-wire, 2 m, PVC	IM12-06BPO-ZW1	6027510
	10 mm	Non-flush	NO	PNP	Connector M12, 4-pin	IM12-10NPS-ZC1	6027514
					Cable, 3-wire, 2 m, PVC	IM12-10NPS-ZW1	6027512
				NPN	Cable, 3-wire, 2 m, PVC	IM12-10NNS-ZW1	6027513








IM18

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M18 x 1	12 mm	Quasi-flush	NO	PNP	Connector M12, 4-pin	IM18-12BPS-ZC1	6027517
					Cable, 3-wire, 2 m, PVC	IM18-12BPS-ZW1	6027515
					Connector M12, 4-pin	IM18-12BPS-ZCK	6025569
				NPN	Cable, 3-wire, 2 m, PVC	IM18-12BNS-ZW1	6027516
	20 mm	Non-flush	NO	PNP	Connector M12, 4-pin	IM18-20NPS-ZC1	6027519
					Cable, 3-wire, 2 m, PVC	IM18-20NPS-ZW1	6027518
				NPN	Connector M12, 4-pin	IM18-20NNS-ZC1	6041997
					Cable, 3-wire, 2 m, PVC	IM18-20NNS-ZW1	6028093

IM30

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M30 x 1.5	22 mm	Quasi-flush	NO	PNP	Connector M12, 4-pin	IM30-22BPS-ZC1	6027521
						IM30-22BPS-ZCK	6025566
			NC	NPN	Connector M12, 4-pin	IM30-22BNS-ZC1	6033033
					Cable, 3-wire, 2 m, PVC	IM30-22BNS-ZW1	6027520
	40 mm	Non-flush	NO	PNP	Connector M12, 4-pin	IM30-22BPO-ZCK	6025568
				NPN	Connector M12, 4-pin	IM30-40NNS-ZC1	6033087
				PNP	Connector M12, 4-pin	IM30-40NPS-ZC1	6027522

Accessories

	Accessory category	Accessory type	Material	Thread size	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	Steel, zinc coated	M8	BEF-WN-M08	5321721
				M12	BEF-WN-M12	5308447
				M18	BEF-WN-M18	5308446
				M30	BEF-WN-M30	5308445
	Terminal and alignment brackets	Terminal brackets	Plastic (PA12), glass-fiber reinforced	M8	BEF-KHF-M08	2051478
				M12	BEF-KHF-M12	2051480
				M18	BEF-KHF-M18	2051482

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At a glance

- Stainless steel housing (316L/1.4404)
- Extremely watertight (IP 68/IP 69K)
- Triple sensing distance
- High resistance to mechanical stress
- Watertight housing suitable for use in hygienic and wash down areas
- Resistant to aggressive cleaning agents
- Visual adjustment indicator via output LED

Your benefits

- Less machine downtime due to rugged sensor design
- Cost reduction due to long service life even under the most extreme ambient conditions
- Quick and easy installation due to adjustment indicator via LEDs
- Large operating reserve due to triple operating distance
- High resistance to shock and impact due to stainless steel sensing face
- No restrictions on cleaning agents or processes, ensuring reliable operation

→ www.mysick.com/en/IM_INOX

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/IM_INOX

IM12

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M12 x 1	6 mm	Flush	NO	PNP	Connector M12, 4-pin	IM12-06BPS-NC1	6027572
				NPN	Connector M12, 4-pin	IM12-06BNS-NC1	6027573
			NC	PNP	Connector M12, 4-pin	IM12-06BPO-NC1	6027574
	10 mm	Non-flush	NO	PNP	Connector M12, 4-pin	IM12-10NPS-NC1	6027575
				NPN	Connector M12, 4-pin	IM12-10NNS-NC1	6027576





IM18

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M18 x 1	10 mm	Flush	NO	PNP	Connector M12, 4-pin	IM18-10BPS-NC1	6027577
				NPN	Connector M12, 4-pin	IM18-10BNS-NC1	6027578
			NC	PNP	Connector M12, 4-pin	IM18-10BPO-NC1	6027579
	20 mm	Non-flush	NO	PNP	Connector M12, 4-pin	IM18-20NPS-NC1	6027580
				NPN	Connector M12, 4-pin	IM18-20NNS-NC1	6027581

IM30

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M30 x 1.5	20 mm	Flush	NO	PNP	Connector M12, 4-pin	IM30-20BPS-NC1	6027582
				NPN	Connector M12, 4-pin	IM30-20BNS-NC1	6027583
	40 mm	Non-flush	NO	PNP	Connector M12, 4-pin	IM30-40NPS-NC1	6027584
				NPN	Connector M12, 4-pin	IM30-40NNS-NC1	6027585

Accessories

	Accessory category	Accessory type	Material	Thread size	Model name	Part no.
	Mounting brackets/plates	Mounting brackets, straight	Steel, zinc coated	M12	BEF-WG-M12	5321869
			Stainless steel	M18	BEF-WG-M18N	5320948
		Mounting brackets, 90°	Steel, zinc coated	M12	BEF-WN-M12	5308447
			Stainless steel	M18	BEF-WN-M18N	5320947

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JohnsonDiversey
ECOLAB®



At a glance

- Extremely watertight (IP 68/IP 69K) for wash down environments
- Stainless steel housing (316L/1.4404)
- Front cap made of PPS (FDA-certified material)
- Extended temperature range (-40 to +80 °C). Tolerates short-term temperature increases up to 100 °C
- Resistant to industrial cleaning agents, ECOLAB and JohnsonDiversey certified
- Laser etched part number

Your benefits

- Reduced machine downtime
- Hygienic process due to FDA approved material and hygienic design
- Reduced maintenance costs due to sensor's resistance to aggressive cleaning cycles
- No restrictions on cleaning agents or processes, ensuring reliable operation

→ www.mysick.com/en/IMF

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/IMF





IMF12

Housing	Sensing range S_n	Installation type	Electrical wiring	Output function	Output type	Connection	Model name	Part no.
M12 x 1	2 mm	Flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF12-02BPSVCOS	6035452
				NC	PNP	Connector M12, 4-pin	IMF12-02BPOVCOS	6035454
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF12-02BPPVCOS	6035215
	4 mm	Flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF12-04BPSVCOS	6035460
				NC	PNP	Connector M12, 4-pin	IMF12-04BPOVCOS	6035462
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF12-04BPPVCOS	6035219
		Non-flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF12-04NPSVCOS	6035456
				NC	PNP	Connector M12, 4-pin	IMF12-04NPOVCOS	6035458
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF12-04NPPVCOS	6035217
	8 mm	Non-flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF12-08NPSVCOS	6035464
				NC	PNP	Connector M12, 4-pin	IMF12-08NPOVCOS	6035466
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF12-08NPPVCOS	6035221

IMF18

Housing	Sensing range S_n	Installation type	Electrical wiring	Output function	Output type	Connection	Model name	Part no.
M18 x 1	5 mm	Flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF18-05BPSVC0S	6035468
				NC	PNP	Connector M12, 4-pin	IMF18-05BPOVC0S	6035470
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF18-05BPPVC0S	6035223
	8 mm	Flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF18-08BPSVC0S	6035476
				NC	PNP	Connector M12, 4-pin	IMF18-08BPOVC0S	6035478
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF18-08BPPVC0S	6035227
		Non-flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF18-08NPSVC0S	6035472
				NC	PNP	Connector M12, 4-pin	IMF18-08NPOVC0S	6035474
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF18-08NPPVC0S	6035225
	12 mm	Non-flush	DC 3-wire	NO	PNP	Connector M12, 4-pin	IMF18-12NPSVC0S	6035480
				NC	PNP	Connector M12, 4-pin	IMF18-12NPOVC0S	6035482
			DC 4-wire	Complementary	PNP	Connector M12, 4-pin	IMF18-12NPPVC0S	6035229

Accessories

	Accessory category	Accessory type	Material	Thread size	Model name	Part no.
	Mounting brackets/ plates	Mounting plate, straight	Stainless steel	M12	BEF-WG-M12N	5320950
				M18	BEF-WG-M18N	5320948
		Mounting plate, 90 °		M12	BEF-WN-M12N	5320949
				M18	BEF-WN-M18N	5320947



At a glance

- Analog output signal is proportional to distance
- Triple sensing distance
- Analog current and voltage signal in one sensor
- High repeatability
- No blind zone

Your benefits

- High positioning accuracy
- High repeatability provides increased machine throughput, less wear and tear, and decreased downtime
- No blind zone – increases machine throughput and efficiency
- Current and voltage output in one sensor requires less inventory of maintenance stock, reducing costs
- Minimal temperature drift provides operational consistency

→ www.mysick.com/en/IMA

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/IMA

IMA08

Housing	Detection range	Installation type	Repeat accuracy typ ^{1) 2) 3)}	Repeatability (T _a constant)	Connection	Model name	Part no.
M8 x 1	0 mm ... 4 mm	Quasi-flush	0.3 mm	± 0.01 mm	Connector M12, 4-pin	IMA08-04BE3ZCOK	6041782

¹⁾ As per IEC 60947-5-2.

²⁾ U_b = DC 20 V ... 30 V.

³⁾ T_A = 23 °C ± 5 °C.

IMA12

Housing	Detection range	Installation type	Repeat accuracy typ ^{1) 2) 3)}	Repeatability (T _a constant)	Connection	Model name	Part no.
M12 x 1	0 mm ... 6 mm	Quasi-flush	0.3 mm	± 0.01 mm	Connector M12, 4-pin	IMA12-06BE3ZCOK	6041792

¹⁾ As per IEC 60947-5-2.

²⁾ U_b = DC 20 V ... 30 V.

³⁾ T_A = 23 °C ± 5 °C.

IMA18

Housing	Detection range	Installation type	Repeat accuracy typ ^{1) 2) 3)}	Repeatability (T _a constant)	Connection	Model name	Part no.
M18 x 1	0 mm ... 10 mm	Quasi-flush	0.3 mm	± 0.02 mm	Connector M12, 4-pin	IMA18-10BE1ZCOK	6041793
	0 mm ... 20 mm	Non-flush	0.3 mm	± 0.05 mm	Connector M12, 4-pin	IMA18-20NE1ZCOK	6041794








¹⁾ As per IEC 60947-5-2.²⁾ U_b = DC 20 V ... 30 V.³⁾ T_A = 23 °C ± 5 °C.

IMA30

Housing	Detection range	Installation type	Repeat accuracy typ ^{1) 2) 3)}	Repeatability (T _a constant)	Connection	Model name	Part no.
M30 x 1.5	0 mm ... 20 mm	Quasi-flush	0.3 mm	± 0.05 mm	Connector M12, 4-pin	IMA30-20BE1ZCOK	6041795
	0 mm ... 40 mm	Non-flush	0.6 mm	± 0.1 mm	Connector M12, 4-pin	IMA30-40NE1ZCOK	6041796

¹⁾ As per IEC 60947-5-2.²⁾ U_b = DC 20 V ... 30 V.³⁾ T_A = 23 °C ± 5 °C.

Accessories

	Accessory category	Accessory type	Material	Thread size	Model name	Part no.
	Mounting brackets/plates	Mounting bracket, 90°	Steel, zinc coated	M8	BEF-WN-M08	5321721
				M12	BEF-WN-M12	5308447
				M18	BEF-WN-M18	5308446
				M30	BEF-WN-M30	5308445
	Terminal and alignment brackets	Terminal brackets	Plastic (PA12), glass-fiber reinforced	M8	BEF-KHF-M08	2051478
				M12	BEF-KHF-M12	2051480
				M18	BEF-KHF-M18	2051482

C




At a glance

- Long sensing distance
- Rugged metal and plastic housings
- Narrow design: 5 x 5 or 8 x 8 mm
- Compact, space-saving design

Your benefits

- Trouble-free installation in space-critical applications
- Reliable detection of fast processes
- Quick installation without any fine adjustments
- Long sensing distance reduces mechanical damage
- Maintenance cost reduction due to increased sensor life
- High resistance to shock and vibrations

[→ www.mysick.com/en/IQ_Miniature](http://www.mysick.com/en/IQ_Miniature)
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Ordering information

Other models available at www.mysick.com/en/IQ_Miniature

IQ05

Housing	Sensing range S _n	Installation type	Output function	Output type	Connection	Model name	Part no.
5 mm x 5 mm x 25 mm	0.8 mm	Flush	NO	PNP	Cable, 3-wire, 2 m, PUR	IQ05-0B8PS-ZU1	6020161
				NPN	Cable, 3-wire, 2 m, PUR	IQ05-0B8NS-ZU1	6020162
			NC	PNP	Cable, 3-wire, 2 m, PUR	IQ05-0B8PO-ZU1	6020163

IQ08

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
8 mm x 8 mm x 40 mm	2 mm	Flush	NO	PNP	Connector M8, 3-pin	IQ08-02BPSKT0S	1055494
					Cable, 3-wire, 2 m, PVC	IQ08-02BPSKW2S	1055490
				NPN	Connector M8, 3-pin	IQ08-02BNSKT0S	1055496
					Cable, 3-wire, 2 m, PVC	IQ08-02BNSKW2S	1055492
			NC	PNP	Connector M8, 3-pin	IQ08-02BPKT0S	1055495
					Cable, 3-wire, 2 m, PVC	IQ08-02BPKW2S	1055491
				NPN	Connector M8, 3-pin	IQ08-02BNOKT0S	1055497
					Cable, 3-wire, 2 m, PVC	IQ08-02BNOKW2S	1055493
	4 mm	Non-flush	NO	PNP	Connector M8, 3-pin	IQ08-04NPSKT0S	1055502
					Cable, 3-wire, 2 m, PVC	IQ08-04NPSKW2S	1055498
				NPN	Connector M8, 3-pin	IQ08-04NNSKT0S	1055504
					Cable, 3-wire, 2 m, PVC	IQ08-04NNSKW2S	1055500
			NC	PNP	Connector M8, 3-pin	IQ08-04NPOKT0S	1055503
					Cable, 3-wire, 2 m, PVC	IQ08-04NPOKW2S	1055499
				NPN	Connector M8, 3-pin	IQ08-04NNOKT0S	1055505
					Cable, 3-wire, 2 m, PVC	IQ08-04NNOKW2S	1055501

C

C



At a glance

- Long sensing distance up to 60 mm
- DC, AC and AC/DC versions available
- Wide range of housing and mounting options
- Variety of connection options including terminal, cable (flying leads) and connector types
- Customer-specific models and value add options are available

Your benefits

- Increased machine throughput with less machine downtime
- Maintenance cost reduction and reduced mechanical damage due to long sensing range
- Reduced maintenance cost due to longer service life
- Time-saving quick and easy installation

→ www.mysick.com/en/IQ_Standard

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Ordering information

Other models available at www.mysick.com/en/IQ_Standard

IQ10

- Dimensions (W x H x D) in mm: 10 mm x 16 mm x 28 mm

Sensing range S _n	Installation type	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
3 mm	Flush	NO	PNP	DC 3-wire	Connector M8, 3-pin	IQ10-03BPSKT0S	1055453
					Cable, 3-wire, 2 m, PVC	IQ10-03BPSKW2S	1055447
		Comple- mentary	NPN	DC 3-wire	Connector M8, 3-pin	IQ10-03BNSKT0S	1055455
					Cable, 3-wire, 2 m, PVC	IQ10-03BNSKW2S	1055450
6 mm	Non-flush	NO	PNP	DC 3-wire	Cable, 4-wire, 2 m, PVC	IQ10-03BPPKW2S	1055465
					NPN	DC 3-wire	Connector M8, 3-pin
		Cable, 3-wire, 2 m, PVC	IQ10-06NPSKW2S	1055457			
		Connector M8, 3-pin	IQ10-06NNSKT0S	1055463			
		Cable, 3-wire, 2 m, PVC	IQ10-06NNSKW2S	1055459			

IQ12

- **Dimensions (W x H x D) in mm:** 12 mm x 26 mm x 40 mm

Sensing range S _n	Installation type	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
4 mm	Flush	NO	PNP	DC 3-wire	Connector M8, 3-pin	IQ12-04BPSKT0S	1055432
					Cable, 3-wire, 2 m, PVC	IQ12-04BPSKW2S	1055428
			NPN	DC 3-wire	Connector M8, 3-pin	IQ12-04BNSKT0S	1055434
					Cable, 3-wire, 2 m, PVC	IQ12-04BNSKW2S	1055430
		Complementary	PNP	DC 4-wire	Cable, 4-wire, 2 m, PVC	IQ12-04BPPKW2S	1055444
8 mm	Non-flush	NO	PNP	DC 3-wire	Connector M8, 3-pin	IQ12-08NPSKT0S	1055440
					Cable, 3-wire, 2 m, PVC	IQ12-08NPSKW2S	1055436
			NPN	DC 3-wire	Connector M8, 3-pin	IQ12-08NNSKT0S	1055442
					Cable, 3-wire, 2 m, PVC	IQ12-08NNSKW2S	1055438

IQ40, Short-body version

- **Dimensions (W x H x D) in mm:** 40 mm x 40 mm x 66 mm

Sensing range S _n	Installation type	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
20 mm	Flush	NO	PNP	DC 3-wire	Connector M12, 4-pin	IQ40-20BPSKC0K	6037070
		Complementary	PNP	DC 4-wire	Connector M12, 4-pin	IQ40-20BPPKC0K	6037072
40 mm	Non-flush	NO	PNP	DC 3-wire	Connector M12, 4-pin	IQ40-40NPSKC0K	6037071
		Complementary	PNP	DC 4-wire	Connector M12, 4-pin	IQ40-40NPPKC0K	6037073

IQ40, Standard version

- **Dimensions (W x H x D) in mm:** 40 mm x 40 mm x 118/121 mm

Sensing range S _n	Installation type	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
15 mm	Flush	NC or NO	–	DC 2-wire	Terminal connection with M20 gland	IQ40-15BDP-KK1	6025817
			PNP	DC 3-wire	Terminal connection with M20 gland	IQ40-15BPP-KK0	7900219
			–	AC 2-wire	Terminal connection with M20 gland	IQ40-15BAP-KK1	6025816
			–	AC/DC 2-wire	Terminal connection with M20 gland	IQ40-15BUP-KK0	7902136
		Complementary	PNP	DC 4-wire	Cable gland	IQ40-15BPP-KK1	6025814
20 mm	Non-flush	NC or NO	PNP	DC 3-wire	Terminal connection with M20 gland	IQ40-20NPP-KK0	7900221
			–	AC/DC 2-wire	Terminal connection with M20 gland	IQ40-20NUP-KK0	7902137
		Complementary	PNP	DC 4-wire	Terminal connection with M20 gland	IQ40-20NPP-KK1	6025815

IQ80

- **Dimensions (W x H x D) in mm:** 80 mm x 40 mm x 105/111 mm

Sensing range S _n	Installation type	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
50 mm	Flush, non-flush, overflush	Complementary	PNP	DC 4-wire	Connector M12, 4-pin	IQ80-50BPP-KC0	6026473
60 mm	Non-flush	NC or NO	PNP	DC 3-wire	Terminal connection with M20 gland	IQ80-60NPP-KK0	7900227
			PNP, NPN	AC/DC 2-wire	Terminal connection with M20 gland	IQ80-60NUP-KK0	7902138



At a glance

- Flat, compact design
- Long sensing distance up to 7mm
- Easily visible indication LEDs
- Available in a plastic (IQ04 and IQ06) and metal housing (IQ20 and IQ25)

Your benefits

- Reduced mechanical damage due to space-saving flat housing, which does not protrude from sensor
- Time-saving simple installation with one or two screws
- No restrictions on machine design

→ www.mysick.com/en/IQ_Flat

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/IQ_Flat

IQ04

Housing	Sensing range S_n	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
8 mm x 16 mm x 4 mm	1.5 mm	NO	PNP	DC 3-wire	Cable, 3-wire, 2 m, PVC	IQ04-1B5PSKW2S	6042017
			NPN	DC 3-wire	Cable, 3-wire, 2 m, PVC	IQ04-1B5NSKW2S	6042019
		NC	PNP	DC 3-wire	Cable, 3-wire, 2 m, PVC	IQ04-1B5POKW2S	6042018
			NPN	DC 3-wire	Cable, 3-wire, 2 m, PVC	IQ04-1B5NOKW2S	6042020

IQ06

Housing	Sensing range S_n	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
10 mm x 30 mm x 6 mm	3 mm	NO	PNP	DC 3-wire	Cable, 3-wire, 2 m, PUR	IQ06-03BPSKU2S	6042022
			NPN	DC 3-wire	Cable, 3-wire, 2 m, PUR	IQ06-03BNSKU2S	6042024
		NC	PNP	DC 3-wire	Cable, 3-wire, 2 m, PUR	IQ06-03BP0KU2S	6042023
			NPN	DC 3-wire	Cable, 3-wire, 2 m, PUR	IQ06-03BN0KU2S	6042025

IQ20

Housing	Sensing range S_n	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
20 mm x 32 mm x 8 mm	7 mm	NO	PNP	DC 3-wire	Cable with plug, M8, 3-pin, 0.3 m, PUR	IQ20-07BPSDP0S	6042043
			NPN	DC 3-wire	Cable with plug, M8, 3-pin, 0.3 m, PUR	IQ20-07BNSDP0S	6042044
		Complementary	PNP	DC 4-wire	Cable with plug, M12, 4-pin, 0.3 m, PUR	IQ20-07BPPDQ0S	6042045

IQ25

Housing	Sensing range S_n	Output function	Output type	Electrical wiring	Connection	Model name	Part no.
25 mm x 50 mm x 10 mm	5 mm	NO	PNP	DC 3-wire	Cable, 3-wire, 2 m, PUR	IQ25-05BPSDU2S	6042046
		Complementary	PNP	DC 4-wire	Cable, 4-wire, 2 m, PUR	IQ25-05BPPDU2S	6042047



At a glance

- Small housing and light weight
- Housing diameters of 3 and 4 mm
- Integrated LED indicator
- Rugged IP 67- rated stainless steel housing
- Flexible connectivity via connecting cable or plug connection

Your benefits

- Space-saving installation in space-critical applications provides a high degree of design freedom
- Reliable detection of high-speed processes increases machine throughput
- High-visibility indicator LED ensures simple monitoring of the operational state
- High positioning accuracy
- High resistance to shock and vibrations increases service life and reduces maintenance and replacement costs

→ www.mysick.com/en/IH_Miniature

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Ordering information

Other models available at www.mysick.com/en/IH_Miniature

IH03

Diameter	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
3 mm	≤ 0.6 mm	Flush	NO	PNP	Cable with plug, M8, 3-pin, with knurled screws, 0.2 m, PUR	IH03-0B6PS-VR1	6038602
					Cable, 3-wire, 2 m, PUR	IH03-0B6PS-VU1	6020141
			NC	NPN	Cable, 3-wire, 2 m, PUR	IH03-0B6NS-VU1	6020142
					Cable, 3-wire, 2 m, PUR	IH03-0B6PO-VU1	6020143

IH04

Diameter	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
4 mm	≤ 0.8 mm	Flush	NO	PNP	Connector M8, 3-pin	IH04-0B8PS-VT1	6020114
					Cable, 3-wire, 2 m, PVC	IH04-0B8PS-VW1	6020113
					Cable with plug, M8, 3-pin, 2 m, PVC	IH04-0B8PS-VR1	6045178
				NPN	Connector M8, 3-pin	IH04-0B8NS-VT1	6020152
					Cable, 3-wire, 2 m, PVC	IH04-0B8NS-VW1	6020149



At a glance

- Operating distance up to 30 mm
- High switching frequencies up to 5 kHz
- DC and AC/DC versions available
- Plastic and stainless steel housing
- Available in short and standard housing lengths

Your benefits

- Reliable detection of high-speed processes increases machine throughput
- High-visibility indicator LED ensures simple monitoring of the operational state
- High resistance to shock and vibrations increases service life and reduces maintenance and replacement costs

→ www.mysick.com/en/IH_Standard

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Ordering information

Other models available at www.mysick.com/en/IH_Standard

Sensing range S_n	Installation type	Output function	Output type	Housing	Connection	Model name	Part no.
1.5 mm	Flush	NO	PNP	Short-body housing	Cable, 3-wire, 2 m, PVC	IH06-1B5PS-VWK	6020165
					Connector M8, 3-pin	IH06-1B5PS-VTK	6020169
			NPN	Short-body housing	Cable, 3-wire, 2 m, PVC	IH06-1B5NS-VWK	6020166
					Connector M8, 3-pin	IH06-1B5NS-VTK	6020170
		NC	PNP	Short-body housing	Cable, 3-wire, 2 m, PVC	IH06-1B5PO-VWK	6020167
					Connector M8, 3-pin	IH06-1B5PO-VTK	6020171
2 mm	Flush	NO	PNP	Standard	Connector M8, 3-pin	IH06-02BPS-VT1	7900179
					Cable, 3-wire, 2 m, PVC	IH06-02BPS-VW1	7900177
				Short-body housing	Connector M8, 3-pin	IH06-02BPS-VTK	6025877
					Cable, 3-wire, 2 m, PVC	IH06-02BPS-VWK	6025874
			NPN	Standard	Cable, 3-wire, 2 m, PVC	IH06-02BNS-VW1	7900178
					Connector M8, 3-pin	IH06-02BNS-VT1	7900180
				Short-body housing	Connector M8, 3-pin	IH06-02BNS-VTK	6025878
					Cable, 3-wire, 2 m, PVC	IH06-02BNS-VWK	6025875
		NC	PNP	Standard	Connector M8, 3-pin	IH06-02BPO-VT1	1016857
				Short-body housing	Connector M8, 3-pin	IH06-02BPO-VTK	6025879

C

Sensing range S_n	Installation type	Output function	Output type	Housing	Connection	Model name	Part no.
4 mm	Non-flush	NO	PNP	Standard	Connector M8, 3-pin	IH06-04NPS-VT1	7900183
					Cable, 3-wire, 2 m, PVC	IH06-04NPS-VW1	7900181
				Short-body housing	Connector M8, 3-pin	IH06-04NPS-VTK	6025882
					Cable, 3-wire, 2 m, PVC	IH06-04NPS-VWK	6025880
			NPN	Standard	Cable, 3-wire, 2 m, PVC	IH06-04NNS-VW1	7900182
				Short-body housing	Connector M8, 3-pin	IH06-04NNS-VTK	6025883
					Cable, 3-wire, 2 m, PVC	IH06-04NNS-VWK	6025881
		NC	PNP	Short-body housing	Connector M8, 3-pin	IH06-04NPO-VTK	6025884



At a glance

- Cylindrical housing
- Detects powders, granulates, liquids and solids.
- Best-in-class electromagnetic compatibility
- 4-wire DC (CM18 and CM30) and 2-wire AC versions (CM30)
- Supply voltage: 10 ... 40 VDC (CM18 and CM30), 20 V... 250 VAC (CM30)
- Short-circuit reverse polarity and power-up pulse suppression protection
- LED status indicator
- IP 67 enclosure rating

Your benefits

- Durable housing withstands harsh industrial applications, reducing maintenance costs and downtime
- Quick and easy adjustment of the switching point saves installation and setup time
- Application flexibility
- Solves applications where other sensing technologies cannot provide a solution
- High shock and vibration resistance increases sensor life and reduces maintenance costs
- Non-contact level measurement, even through container or tank walls, reduces installation and setup time

→ www.mysick.com/en/CM

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Ordering information

Other models available at www.mysick.com/en/CM




CM18

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M18 x 1	3 mm ... 8 mm	Flush	Complementary	PNP	Connector M12, 4-pin	CM18-08BPP-KC1	6020388
					Cable, 4-wire, 2 m, PVC	CM18-08BPP-KW1	6020136
				NPN	Connector M12, 4-pin	CM18-08BNP-KC1	6021456
					Cable, 4-wire, 2 m, PVC	CM18-08BNP-KW1	6021455
	3 mm ... 12 mm	Non-flush	Complementary	PNP	Connector M12, 4-pin	CM18-12NPP-KC1	6020410
					Cable, 4-wire, 2 m, PVC	CM18-12NPP-KW1	6020389
				NPN	Connector M12, 4-pin	CM18-12NNP-KC1	6021458
					Cable, 4-wire, 2 m, PVC	CM18-12NNP-KW1	6021457

CM30

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
M30 x 1.5	2 mm ... 16 mm	Flush	Complementary	PNP	Connector M12, 4-pin	CM30-16BPP-KC1	6020475
					Cable, 4-wire, 2 m, PVC	CM30-16BPP-KW1	6020473
				NPN	Connector M12, 4-pin	CM30-16BNP-KC1	6021460
					Cable, 4-wire, 2 m, PVC	CM30-16BNP-KW1	6021459
	4 mm ... 25 mm	Non-flush	Complementary	PNP	Connector M12, 4-pin	CM30-25NPP-KC1	6020477
					Cable, 4-wire, 2 m, PVC	CM30-25NPP-KW1	6020476
				NPN	Connector M12, 4-pin	CM30-25NNP-KC1	6021462
					Cable, 4-wire, 2 m, PVC	CM30-25NNP-KW1	6021461

Accessories

	Accessory category	Accessory type	Connector type	Enclosure rating	Flying leads	Sheath material	Material	Cable length	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets, M18	–	–	–	–	Steel, zinc coated	–	BEF-WN-M18	5308446
		Mounting brackets, M30							BEF-WN-M30	5308445
		Mounting plates, M18	–	–	–	–	Stainless steel	–	BEF-WN-M18N	5320947
	Terminal and alignment brackets	Terminal brackets	–	–	–	–	Plastic (PA12), glass-fiber reinforced	–	BEF-KH-M18	2051481
									BEF-KHF-M18	2051482
	Plug connectors and cables	Connector M12, 4-pin	Female connector	IP 67	Straight	PVC	–	2 m	DOL-1204-G02M	6009382
								5 m	DOL-1204-G05M	6009866
				IP 68	Straight	PUR halogen-free	–	2 m	DOL-1204-G02MC	6025900
								5 m	DOL-1204-G05MC	6025901



At a glance

- Rectangular housing
- Detects powders, granulates, liquids and solids.
- Best-in-class high electromagnetic compatibility
- Electrical design: DC 4-wire
- Supply voltage: CQ35 10 ... 40 VDC and CQ28 10...30 VDC
- Short-circuit, reverse polarity and power-up pulse suppression protection

Your benefits

- Non-contact level measurement, even through container or tank walls, which eliminates drilling holes and thus reduces installation time
- Durable housing withstands harsh industrial applications, reducing maintenance costs
- Quick and easy adjustment of the switching point - via pushbutton, remote teach for the CQ28 and via potentiometer for CQ35 - saves time
- Simple and save detection alternative to photoelectric and inductive sensors in applications such as detecting product in a sealed box, container or tank



→ www.mysick.com/en/CQ

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Ordering information

Other models available at www.mysick.com/en/CQ

CQ28

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
28 mm x 46 mm x 5.5 mm	1 mm ... 10 mm	Non-flush	NC or NO	PNP	Cable, 4-wire, 2 m, PVC	CQ28-10NPP-KW1	6030132
				NPN	Cable, 4-wire, 2 m, PVC	CQ28-10NNP-KW1	6030133

CQ35

Housing	Sensing range S_n	Installation type	Output function	Output type	Connection	Model name	Part no.
35 mm x 15 mm x 69.5 mm	4 mm ... 25 mm	Non-flush	Complementary	PNP	Connector M12, 4-pin	CQ35-25NPP-KC1	6020479
				NPN	Connector M12, 4-pin	CQ35-25NNP-KC1	6021464
35 mm x 15 mm x 57.5 mm	4 mm ... 25 mm	Non-flush	Complementary	PNP	Cable, 4-wire, 2 m, PVC	CQ35-25NPP-KW1	6020478
				NPN	Cable, 4-wire, 2 m, PVC	CQ35-25NNP-KW1	6021463

Accessories

	Connection type	Connector type	Enclosure rating	Flying leads	Sheath material	Cable length	Model name	Part no.
	Connector M12, 4-pin	Female connector	IP 67	Straight	PVC	2 m	DOL-1204-G02M	6009382
						5 m	DOL-1204-G05M	6009866
	Connector M12, 4-pin	Female connector	IP 68	Straight	PUR halogen-free	2 m	DOL-1204-G02MC	6025900
						5 m	DOL-1204-G05MC	6025901

C



At a glance

- Reliable detection of permanent magnets through non-ferromagnetic materials such as stainless steel, aluminum, plastic or wood
- Precise switching point and exact hysteresis
- Reliable object detection in high temperature zones
- Small housing design with large operating distances
- Resistant to dust, dirt, and vibrations, increasing sensor life and reducing maintenance costs

Your benefits

- Non-contact operation eliminates interference from dirt, dust and vibrations, increasing sensor life and reducing maintenance costs
- Space-saving installation due to small design
- Large operating distances with reliable switching increase throughput
- Non-contact, universal detection through several substances, including plastic containers and pipes protective PTFE walls and non-magnetic metal walls

→ www.mysick.com/en/MM

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/MM

MM08

Housing	Sensing range $S_n^{1)}$	Output function	Output type	Connection	Model name	Part no.
M8 x 1	0 mm ... 60 mm	NO	PNP	Connector M8, 3-pin	MM08-60APS-ZTK	1040067
				Cable, 3-wire, 2 m, PUR/PVC	MM08-60APS-ZUK	1040027
			NPN	Connector M8, 3-pin	MM08-60ANS-ZTK	1040068
				Cable, 3-wire, 2 m, PUR/PVC	MM08-60ANS-ZUK	1040066

¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0)

MM12

Housing	Sensing range $S_n^{1)}$	Output function	Output type	Connection	Model name	Part no.
M12 x 1	0 mm ... 60 mm	NO	PNP	Connector M12, 4-pin	MM12-60APS-ZCK	1040070
				Cable, 3-wire, 2 m, PUR/PVC	MM12-60APS-ZUK	1040069
			NPN	Connector M12, 4-pin	MM12-60ANS-ZCK	1040071
				Cable, 3-wire, 2 m, PUR/PVC	MM12-60ANS-ZUK	1040026










¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0)

MM18

Housing	Sensing range $S_n^{1)}$	Output function	Output type	Connection	Model name	Part no.
M18 x 1	0 mm ... 70 mm	NO	PNP	Connector M12, 4-pin	MM18-70APS-ZCK	1040072
				Cable, 3-wire, 2 m, PUR/PVC	MM18-70APS-ZUK	1040029
		NO	NPN	Connector M12, 4-pin	MM18-70ANS-ZCK	1040073
				Cable, 3-wire, 2 m, PUR/PVC	MM18-70ANS-ZUK	1040085
	5 mm ... 120 mm	NO	PNP	Connector M12, 4-pin	MM18-00APS-ZCO	1029861
				Cable, 3-wire, 2 m, PUR/PVC	MM18-00APS-ZUO	1029952

¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0)

Accessories

	Accessory category	Accessory type	Material	Thread size	Model name	Part no.	
	Mounting brackets/plates	Mounting brackets, straight	Steel, zinc coated	M8	BEF-WG-M08	5321722	
				M12	BEF-WG-M12	5321869	
				M18	BEF-WG-M18	5321870	
		Mounting brackets, 90°		M8	BEF-WN-M08	5321721	
				M12	BEF-WN-M12	5308447	
				M18	BEF-WN-M18	5308446	
	Terminal and alignment brackets	Terminal brackets	Plastic (PA12), glass-fiber reinforced	M8	BEF-KH-M08	2051477	
				M12	BEF-KH-M12	2051479	
				M18	BEF-KH-M18	2051481	

C



At a glance

- Detection of permanent magnets through non-ferromagnetic materials, such as stainless steel, aluminum, plastic or wood
- NAMUR design for usage in hazardous explosive areas
- Suitable for object detection in high temperature areas due to long sensing ranges
- Fits on to standard M12 and M18 installation

Your benefits

- NAMUR design ensures safe operation in highly explosive areas
- Non-contact operation ensures resistance to dirt, dust and vibration, increasing sensor life and reducing maintenance costs
- Large operating distances ensure reliable switching, even with target position tolerances
- Non-contact, universal detection through several substances, including plastic containers and pipes and protective PTFE walls

→ www.mysick.com/en/MM_Namur

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/MM_Namur

MM12 NAMUR

Housing	Sensing range S_n ¹⁾	Output type	Connection	Model name	Part no.
M12 x 1	5 mm ... 60 mm	NAMUR	Connector M12, 4-pin	MM12-60A-N-ZC0	7900287
			Cable, 2-wire, 2 m, PVC	MM12-60A-N-ZW0	7900286







¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0)

MM18 NAMUR

Housing	Sensing range S_n ¹⁾	Output type	Connection	Model name	Part no.
M18 x 1	5 mm ... 70 mm	NAMUR	Connector M12, 4-pin	MM18-70A-N-ZC0	7900289
			Cable, 2-wire, 2 m, PVC	MM18-70A-N-ZW0	7900288

¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0)

Accessories

	Accessory category	Accessory type	Material	Thread size	Model name	Part no.
	Mounting brackets/plates	Mounting brackets, straight	Steel, zinc coated	M12	BEF-WG-M12	5321869
				M18	BEF-WG-M18	5321870
		Mounting brackets, 90°		M12	BEF-WN-M12	5308447
				M18	BEF-WN-M18	5308446
	Terminal and alignment brackets	Terminal brackets	Plastic (PA12), glass-fiber reinforced	M12	BEF-KH-M12	2051479
				M18	BEF-KH-M18	2051481

C

C



At a glance

- Long sensing distance in a small, compact rectangular plastic housing with an IP 67 enclosure rating
- Detection of permanent magnets through non-ferromagnetic materials such as stainless steel, aluminum, plastic, or wood
- Solves high-temperature applications by installing the temperature-resistant magnet in the high-temperature area and the sensor behind an insulated area
- Non-contact operation that is resistant to dust, dirt, shock and vibration
- Precise switching point and hysteresis
- Sensing distance up to 60 mm
- High switching frequency
- Short-circuit, reverse polarity protection and power-up pulse suppression

Your benefits

- Non-contact operation eliminates interference from dirt, dust, shock and vibrations, reducing maintenance costs
- Long sensing distance with reliable switching reduces miscounts and increases machine throughput
- Easy to install, low-cost sensor solution saves installation time and costs
- Compact plastic housing saves machine space

→ www.mysick.com/en/MQ

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



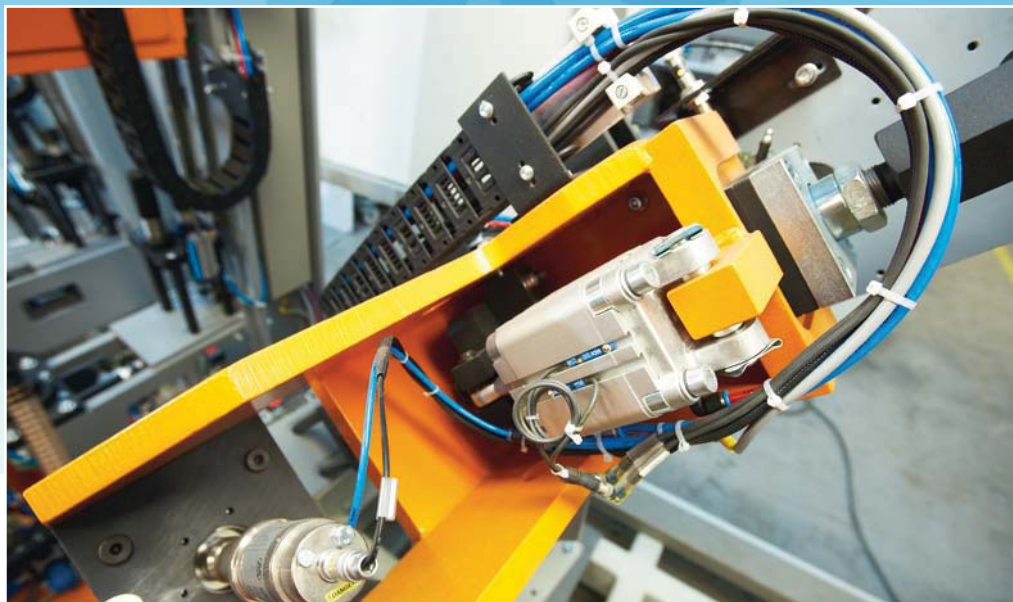
Ordering information

Other models available at www.mysick.com/en/MQ

Sensing range S_n ¹⁾	Output function	Output type	Connection	Model name	Part no.
5 mm ... 60 mm	NO	PNP	Connector M8, 3-pin	MQ10-60APS-KT0	7900280
			Cable, 3-wire, 2 m, PUR/PVC	MQ10-60APS-KU0	7900278
		NPN	Connector M8, 3-pin	MQ10-60ANS-KT0	7900281
			Cable, 3-wire, 2 m, PUR/PVC	MQ10-60ANS-KU0	7900279

¹⁾ Sensing range based on installation in non-magnetic material using Magnet MAG-3010-B (M4.0)

With millimeter precision – cylinder sensors from SICK



Magnetic cylinder sensors

Detecting, measuring, positioning, quality control – all crucial tasks in industrial automation. Machinery is becoming ever smaller, yet still offering unprecedented performance levels. Innovative cylinder sensors from SICK were developed for faster and more accurate detection of piston positions in compact pneumatic


cylinders. This results in broader fields of application for pneumatic cylinders plus new potential for machinery and production plants. And with our huge range of magnetic cylinder sensors to choose from, we can meet your every need. With features like ease of handling, the option of an analog output, optimum


switching characteristics, suitability for use in the food and beverage industry, support for the latest IO-Link technology, and universal mounting options with our comprehensive range of adapters, magnetic cylinder sensors from SICK are equipped for all installation locations and conditions.





Magnetic cylinder sensors


Selection guide magnetic cylinder sensors. 158


 **MPA** 160
Precision and versatility up to 1007 millimeters


 **MPS** 162
Precise positioning with the fastest measurement rate


 **MZ2Q-C** 163
Magnetic cylinder sensor with two programmable switching points


 **MZC1** 165
Drop-in, install, done


 **RZC1** 166
Drop-in, install, done

 **MZ2Q-T** 167
Magnetic cylinder sensors with two individually adjustable switching points

 **MZT6** 168
Widest portfolio for versatile tasks

 **MZT6 ATEX** 170
Widest portfolio for ATEX applications

 **MZT8** 171
MZT8 – compact, time- saving installation in T-slots

 **RZT6** 172
Widest portfolio for versatile tasks

Selection guide magnetic cylinder sensors

D

	Magnetic cylinder sensors									
	MPA	MPS	MZ2Q-C	MZC1	RZC1	MZ2Q-T	MZT6	MZT6 ATEX	MZT8	RZT6
For cylinder type										
C-slot			■	■	■					
T-slot		■				■	■	■	■	■
With adapter to fit										
T-slot	■									
Round body cylinders	■	■				■	■	■	■	■
Tie-rod cylinders	■					■	■	■	■	■
Integrated profile cylinders						■	■	■	■	■
Dovetail groove cylinders		■				■	■	■	■	■
SMC rail cylinders CDQ2		■	■	■	■	■	■	■	■	■
SMC rail cylinders ECDQ2		■	■	■	■	■	■	■	■	■
Output										
PNP/NPN			■	■		■	■	■	■	
Reed					■					■
Analog output U, I	■	■								
Special features										
1 sensor, 2 switching points			■			■				
IO-Link			■			■				
Special requirements										
Potentially explosive atmospheres								■		
Page	160	162	163	165	166	167	168	170	171	172

D



At a glance

- Measured lengths from 107 to 1007 mm in 36 mm steps
- Output signals 4 to 20 mA as well as 0 to 10 V in a single sensor
- Can be mounted on various cylinders thanks to its universal housing with adapters, e.g., cylinders with T-slot, round and tie rod cylinders
- Linearity of 0.5 mm at a sample rate of 1.15 ms
- Accuracy of 0.03 % as well as reproducibility of 0.06 %
- IP 67 enclosure rating

Your benefits

- High flexibility through measuring ranges from 107 to 1007 mm
- Increased machine performance thanks to the sensor's minimal blind zone
- Saves time due to configurable start and end points via intelligent Teach Pad
- A rugged aluminum housing, the capacitive Teach Pad and the anti-kink cable guarantees a long operational lifetime of the sensor and reduces maintenance costs
- Time savings through simple commissioning and diagnostics thanks to a 4-color LED display
- Analog power, voltage signal and IO-Link in a single sensor reduces the range of variants and thereby lowers warehousing costs

→ www.mysick.com/en/MPA

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/MPA


- **Cylinder types with adapter:** T-slot , Roundbody cylinder, Tie rod cylinder
- **Output function:** analog, IO-Link

Measuring range ± 1 mm	Connection	Model name	Part no.
107 mm	Cable, 2 m, PUR	MPA-107TSTU0	1059443
143 mm		MPA-143TSTU0	1059445
179 mm		MPA-179TSTU0	1059447
215 mm		MPA-215TSTU0	1059449
251 mm		MPA-251TSTU0	1059451
287 mm		MPA-287TSTU0	1059453
323 mm		MPA-323TSTU0	1059455

Measuring range ± 1 mm	Connection	Model name	Part no.
107 mm	Cable with plug, M8, 4-pin, 300 mm, PUR	MPA-107TSTP0	1059442
143 mm		MPA-143TSTP0	1059444
179 mm		MPA-179TSTP0	1059446
215 mm		MPA-215TSTP0	1059448
251 mm		MPA-251TSTP0	1059450
287 mm		MPA-287TSTP0	1059452
323 mm		MPA-323TSTP0	1059454
359 mm		MPA-359TSTP0	1059456
395 mm		MPA-395TSTP0	1059458
431 mm		MPA-431TSTP0	1059460
467 mm		MPA-467TSTP0	1059462
539 mm		MPA-539TSTP0	1059466
575 mm		MPA-575TSTP0	1059467
503 mm		MPA-503TSTP0	1059464
611 mm		MPA-611TSTP0	1059468
647 mm		MPA-647TSTP0	1059469
683 mm		MPA-683TSTP0	1059470
719 mm		MPA-719TSTP0	1059471
791 mm		MPA-791TSTP0	1059473
755 mm		MPA-755TSTP0	1059472
827 mm		MPA-827TSTP0	1059474
863 mm		MPA-863TSTP0	1059475
899 mm		MPA-899TSTP0	1059476
935 mm		MPA-935TSTP0	1059477
971 mm		MPA-971TSTP0	1059478
1,007 mm		MPA-1007TSTP0	1059479

D

Accessories

	Accessory category	Accessory type	Dimensions (L x W x H)	Model name	Part no.
	Brackets for cylinder sensors	For profile cylinder/tie-rod cylinder	–	BEF-KHZPZ1MPA	2065578
		For T-slot cylinders	–	BEF-KHZT01MPA	2065575
	Magnets	–	6.5 mm	MAG-2006-B	7901784

D



At a glance

- Magnetic position sensor for pneumatic and hydraulic cylinders with T-slot
- Output signal: analog, 4 – 20 mA current and 0 -10 V (in one sensor)
- Superior precision: 0.05 mm resolution, 0.1 mm repeatability, 0.3 mm linearity, 1 ms measurement rate
- Electric setting of zero point and end point via teach-in button (optional)
- Various lengths available from 32 - 256 mm

Your benefits

- Maximum flexibility with several different measuring ranges from 32 to 256 mm
- Easy analog output setup: adjustable zero and end point can be taught via single button
- Drop-in T-slot mounting from above makes assembly easy
- Selectable installation direction to optimize cabling
- Efficient measurement of stroke due to minimal blind zones, increasing machine throughput
- Simple commissioning due to "in-range" indicator
- Output signal: analog, 4 – 20 mA current and 0 -10 V (in one sensor) reduces inventory cost by part number reduction

→ www.mysick.com/en/MPS

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/MPS

- Teach-in: ✓
- Cylinder types: T-slot
- Cylinder types with adapter: Roundbody cylinder, Dove-tail groove cylinder, SMC rail cylinder CDQ2 (C-Slot), SMC rail cylinder ECDQ2 (C-Slot)
- Output function: analog

Measuring range ± 1 mm	Connection	Model name	Part no.
32 mm	Cable, 2 m, PUR	MPS-032TSTU0	1045667
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-032TSTP0	1045666
64 mm	Cable, 2 m, PUR	MPS-064TSTU0	1045669
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-064TSTP0	1045668
96 mm	Cable, 2 m, PUR	MPS-096TSTU0	1045671
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-096TSTP0	1045670
128 mm	Cable, 2 m, PUR	MPS-128TSTU0	1045673
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-128TSTP0	1045672
160 mm	Cable, 2 m, PUR	MPS-160TSTU0	1050740
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-160TSTP0	1050685
192 mm	Cable, 2 m, PUR	MPS-192TSTU0	1050738
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-192TSTP0	1047728
224 mm	Cable, 2 m, PUR	MPS-224TSTU0	1050741
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-224TSTP0	1050686
256 mm	Cable, 2 m, PUR	MPS-256TSTU0	1050739
	Cable with plug, M8, 4-pin, 300 mm, PUR	MPS-256TSTP0	1050551



At a glance

- Magnetic cylinder sensor for pneumatic and hydraulic cylinders with C-slot
- Simple 2-point teach-in procedure
- Detection zone up to 50 mm stroke
- Drop-in mounting from above
- Sensor fully recessed in slot
- Two versions available for Festo and SMC C-slots

Your benefits

- One sensor with two programmable switching points reduces installation time
- Fewer mounting and cabling requirements – saves installation time, mounting space, and money
- Maximum flexibility: programmable detection zone up to 50 mm stroke
- Suitable for precise pneumatic applications due to simple and precise definition of two switching points

→ www.mysick.com/en/MZ2Q-C

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.






Ordering information

Other models available at www.mysick.com/en/MZ2Q-C

- **Cylinder types:** C-slot
- **Cylinder types with adapter:** SMC rail cylinder CDQ2 (C-Slot), SMC rail cylinder ECDQ2 (C-Slot)
- **Output type:** PNP
- **Output function:** NO

For SMC cylinder	For Festo cylinder	IO-Link	Connection	Model name	Part no.
✓	-	-	Cable, 4-wire, 2 m, PUR	MZ2Q-CSSPSKU0	1042237
			Cable with plug, M8, 4-pin, 0.3 m, PUR	MZ2Q-CSSPSKP0	1042238
			Cable with plug, M8, 4-pin, with knurled screws, 0.5 m, PUR	MZ2Q-CSSPSKR0	1042239
			Cable with plug, M12, 4-pin, 0.3 m, PUR	MZ2Q-CSSPSKQ0	1042240
-	✓	✓	Cable with plug, M12, 4-pin, 0.3 m, PUR	MZ2Q-CSLPSKQ0	1043696
		-	Cable, 4-wire, 2 m, PUR	MZ2Q-CFSPSKU0	1042241
			Cable with plug, M8, 4-pin, 0.3 m, PUR	MZ2Q-CFSPSKP0	1042242
			Cable with plug, M8, 4-pin, with knurled screws, 0.5 m, PUR	MZ2Q-CFSPSKR0	1042243
			Cable with plug, M12, 4-pin, 0.3 m, PUR	MZ2Q-CFSPSKQ0	1042244
		✓	Cable with plug, M12, 4-pin, 0.3 m, PUR	MZ2Q-CFLPSKQ0	1043697

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Brackets for cylinder sensors	For profile cylinder/tie-rod cylinder	Zinc diecast	BEF-KHZ-PT1	2022702
		For round body cylinders	Plastic, nickel silver	BEF-KHZ-RT1-130	5311506
				BEF-KHZ-RT1-25	5311171
				BEF-KHZ-RT1-63	5311172
		For cylinders with dovetail-slot	Aluminum	BEF-KHZ-ST1	2022703



At a glance

- Fits into all commonly used cylinders, linear slides and grippers with C-slots, such as, Festo or SMC
- Complete range with PNP/ NPN, PUR and PVC cable, M8 and M12 connector
- Combined Allen and flathead installation screw
- Very short sensor housing, making it easier to install on short stroke cylinders
- Operating display LED
- IP 67 / IP 68 / IP 69K enclosure rating (depending on type)

Your benefits

- Reduced maintenance cost as the sensor keeps its position under shock and vibration and does not move out
- Increased machine throughput via SICK's proprietary GMR (giant magnetoresistive) and ASIC (application specific integrated circuit) technology that ensures precise one-time switching while eliminating false signals
- Flexible installation via Allen wrench or flathead screwdriver
- Time saving single-hand mounting with ¼-turn installation.
- Convenient installation and sensor replacement due to drop-in installation – installer does not need to disassemble the cylinder from the machine for sensor replacement.

→ www.mysick.com/en/MZC1

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.

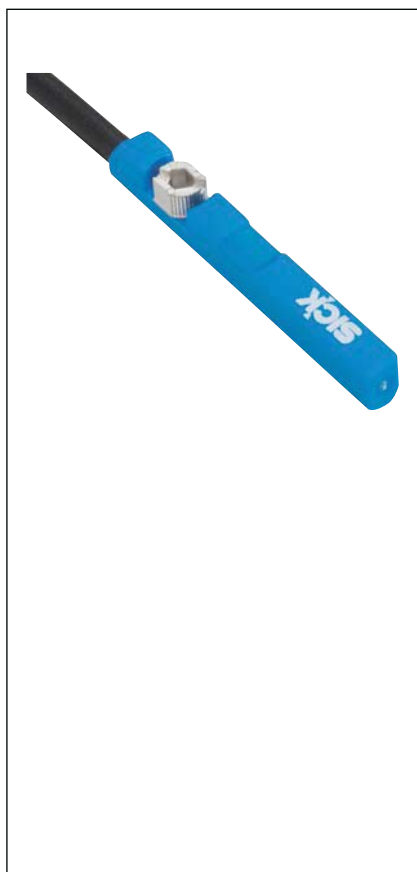


Ordering information

Other models available at www.mysick.com/en/MZC1

- **Cylinder types:** C-slot
- **Cylinder types with adapter:** SMC rail cylinder CDQ2 (C-Slot), SMC rail cylinder ECDQ2 (C-Slot)
- **Output function:** NO

Overrun distance typ.	Output type	Enclosure rating	Connection	Model name	Part no.
4 mm	PNP	IP 67, IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZC1-2V2PS-KP0	1059735
			Cable with plug, M8, 3-pin, with knurled screws, 0.3 m, PUR	MZC1-2V2PS-KR0	1059737
		IP 67, IP 68, IP 69K	Cable, 3-wire, 2 m, PUR	MZC1-2V2PS-KU0	1059738
			Cable, 3-wire, 5 m, PUR	MZC1-2V2PS-KUB	1059739
	NPN	IP 67, IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZC1-2V2NS-KP0	1059744
			Cable with plug, M8, 3-pin, with knurled screws, 0.3 m, PUR	MZC1-2V2NS-KR0	1059742
	IP 67, IP 68, IP 69K	Cable, 3-wire, 2 m, PUR	MZC1-2V2NS-KU0	1059743	
7 mm	PNP	IP 67, IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZC1-4V3PS-KP0	1059752
			Cable with plug, M8, 3-pin, with knurled screws, 0.3 m, PUR	MZC1-4V3PS-KR0	1059753
		IP 67, IP 68, IP 69K	Cable, 3-wire, 2 m, PUR	MZC1-4V3PS-KU0	1059755
	NPN	IP 67, IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZC1-4V3NS-KP0	1059757
		IP 67, IP 68, IP 69K	Cable, 3-wire, 2 m, PUR	MZC1-4V3NS-KU0	1059756



At a glance

- Fits into all commonly used cylinders, linear slides and grippers with C-slots, such as, Festo or SMC
- Complete range with Reed 3-wire, Reed 2-wire, and Reed 120V version
- Combined Allen and flathead installation screw
- Very short sensor housing, making it easier to install on short stroke cylinders
- Operating display LED
- IP 67 / IP 68 / IP 69K enclosure rating (depending on type)

Your benefits

- Reduced maintenance cost as the sensor keeps its position under shock and vibration and does not move out
- Flexible installation via Allen wrench or flathead screwdriver
- Time saving single-hand mounting with ¼-turn installation
- Convenient installation and sensor replacement due to drop-in installation – installer does not need to disassemble the cylinder from the machine for sensor replacement

→ www.mysick.com/en/RZC1

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/RZC1

- **Cylinder types:** C-slot
- **Cylinder types with adapter:** SMC rail cylinder CDQ2 (C-Slot), SMC rail cylinder ECDQ2 (C-Slot)
- **Switching output:** Reed
- **Output function:** NO

Electrical wiring	Supply voltage	Enclosure rating	Connection	Model name	Part no.
AC/DC 3-wire	5 V AC/DC 30 V AC/DC	IP 67 ¹⁾	Cable with plug, M8, 3-pin, 0.3 m, PUR	RZC1-04ZRS-KP0	1059747
		IP 67, IP 68, IP 69K ^{1) 2)}	Cable, 3-wire, 2 m, PUR	RZC1-04ZRS-KU0	1059746
AC/DC 2-wire	5 V AC/DC 30 V AC/DC	IP 67 ¹⁾	0.3 m, PUR	RZC1-04ZUS-KP0	1059751
	5 V AC/DC 120 V AC/DC	IP 67 ¹⁾	Cable, 2-wire, 2 m, PUR	RZC1-04ZUS-KU0	1059750

¹⁾ According to EN 60529 (IP67/IP68)

²⁾ According to DIN 40050 (IP69K)



At a glance

- Magnetic cylinder sensor for pneumatic and hydraulic cylinders with T-slot
- Simple 2-point teach-in procedure
- Detection zone up to 50 mm stroke
- Drop-in T-slot mounting from above makes assembly easy
- Sensor fully recessed in slot
- For all commonly used cylinders with T-slots, e.g., Festo or SMC and it can be applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets

Your benefits

- One sensor with two adjustable switching points reduces installation time and cost
- Detection zone up to 50 mm stroke provides maximum application flexibility
- Ideal for precise pneumatic applications due to the definition of two switching points
- Drop-in T-slot mounting from above makes assembly easy

→ www.mysick.com/en/MZ2Q-T

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.






Ordering information

Other models available at www.mysick.com/en/MZ2Q-T

- **Cylinder types:** T-slot
- **Cylinder types with adapter:** Profile cylinder, Roundbody cylinder, SMC rail cylinder CDQ2 (T-Slot), SMC rail cylinder ECDQ2 (T-Slot), Tie rod cylinder, Dove-tail groove cylinder
- **For Festo cylinder:** ✓
- **Switching output:** PNP
- **Output function:** NO

Connection	Model name	Part no.
Cable, 4-wire, 2 m, PUR	MZ2Q-FTZPS-KU0	1029845
Cable with plug, M8, 4-pin, with knurled screws, 0.5 m, PUR	MZ2Q-FTZPS-KR0	1041322
Cable with plug, M12, 4-pin, with knurled screws, 0.3 m, PUR	MZ2Q-FTZPS-KQ0	1041323

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Brackets for cylinder sensors	For profile cylinder/tie-rod cylinder	Zinc diecast	BEF-KHZ-PT1	2022702
		For round body cylinders	Plastic, nickel silver	BEF-KHZ-RT1-130	5311506
				BEF-KHZ-RT1-25	5311171
				BEF-KHZ-RT1-63	5311172
		For cylinders with dovetail-slot	Aluminum	BEF-KHZ-ST1	2022703



At a glance

- Compact housing design
- Proprietary GMR-ASIC technology ensures precise switching and low hysteresis
- Enclosure rating: IP 68 / IP 69K
- Combined fixing screw
- LED function indicator
- For all commonly used cylinders with T-slots, e.g., Festo or SMC and it can be applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets

Your benefits

- Best-in-class switching performance for precise piston position
- Highly resistant to shock and vibration enlarging sensor life time
- Drop-in T-slot mounting from above makes assembly easy
- Easy installation with Allen wrench or flat head screwdriver
- Resistant to leaks, ensuring reliability

→ www.mysick.com/en/MZT6

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information




Other models available at www.mysick.com/en/MZT6

- **Cylinder types:** T-slot
- **Cylinder types with adapter:** Profile cylinder, Roundbody cylinder, SMC rail cylinder CDQ2 (T-Slot), SMC rail cylinder ECDQ2 (T-Slot), Tie rod cylinder, Dove-tail groove cylinder
- **Overrun distance typ.:** 3 mm
- **Magnetic field sensitivity, min.:** 2.6 mT

Output function	Switching output	Enclosure rating	Connection	Model name	Part no.
NO	PNP	IP 68, IP 69K ¹⁾	Cable, 3-wire, 2 m, PUR	MZT6-03VPS-KU0	1043369
			Cable, 3-wire, 5 m, PVC	MZT6-03VPS-KWB	1025809
		IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZT6-03VPS-KP0	1023971
			Cable with plug, M8, 3-pin, with knurled screws, 0.5 m, PUR	MZT6-03VPS-KR0	1023972
			Cable with plug, M12, 3-pin, 0.3 m, PUR	MZT6-03VPS-KQ0	1025550
NC	NPN	IP 68, IP 69K ¹⁾	Cable, 3-wire, 2 m, PVC	MZT6-03VNS-KW0	1029401
		IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZT6-03VNS-KP0	1029402
		IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZT6-03VPO-KP0	1028741

¹⁾ According to EN40050.

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Brackets for cylinder sensors	For profile cylinder/tie-rod cylinder	Zinc diecast	BEF-KHZ-PT1	2022702
		For round body cylinders	Plastic, nickel silver	BEF-KHZ-RT1-130	5311506
				BEF-KHZ-RT1-25	5311171
				BEF-KHZ-RT1-63	5311172
		For cylinders with dovetail-slot	Aluminum	BEF-KHZ-ST1	2022703

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At a glance

- ATEX 3D/ 3G and ATEX 3G
- Compact housing design
- Proprietary GMR-ASIC technology ensures precise switching and low hysteresis
- Enclosure rating: IP 68 / IP 69K
- Combined fixing screw
- LED function indicator
- For all commonly used cylinders with T-slots, e.g., Festo or SMC and it can be applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets

Your benefits

- Best-in-class switching performance for precise piston position
- Highly resistant to shock and vibration enlarging sensor life time
- Drop-in T-slot mounting from above makes assembly easy
- Easy installation with Allen wrench or flat head screwdriver
- Resistant to leaks, ensuring reliability

→ www.mysick.com/en/MZT6_ATEX

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/MZT6_ATEX

- **Cylinder types:** T-slot
- **Cylinder types with adapter:** Profile cylinder, Roundbody cylinder, SMC rail cylinder CDQ2 (T-Slot), SMC rail cylinder ECDQ2 (T-Slot), Tie rod cylinder, Dove-tail groove cylinder
- **Output function:** NO
- **Overrun distance typ.:** 3 mm
- **Switching output:** PNP

Hazardous area category	Enclosure rating	Connection	Model name	Part no.
3G, 3D	IP 68, IP 69K ¹⁾	Cable, 3-wire, 2 m, PVC	MZT6-03VPS-KWX	1025827
	IP 68	Cable with plug, M12, 3-pin, 0.3 m, PVC	MZT6-03VPS-KQX	1029161
3G	IP 68	Cable with plug, M8, 3-pin, 0.3 m, PUR	MZT6-03VPS-KPX	1028629

¹⁾ According to EN40050.

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Brackets for cylinder sensors	For profile cylinder/tie-rod cylinder	Zinc diecast	BEF-KHZ-PT1	2022702
		For round body cylinders	Plastic, nickel silver	BEF-KHZ-RT1-130	5311506
				BEF-KHZ-RT1-25	5311171
				BEF-KHZ-RT1-63	5311172
		For cylinders with dovetail-slot	Aluminum	BEF-KHZ-ST1	2022703



At a glance

- Magnetic piston detection for all conventional pneumatic cylinders with T-slots
- Short sensor housing length – only 24 mm
- Sensor element at the tip of the housing
- Proprietary GMR-ASIC technology ensures precise switching and low hysteresis
- Enclosure rating: IP 68 / IP 69K (PUR) respectively IP 67 / IP 69K (PVC)
- Captive screw
- LED function indicator
- For all commonly used cylinders with T-slots, e.g., Festo or SMC and it can be applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets

Your benefits

- Shortest sensor on the market, making it ideal for short stroke cylinders
- Sensor element at the tip of the sensor – piston detection possible without stroke loss
- Captive installation screw enables reliable and optimized installation
- Time saving “single-handed mounting” with 1/4 turn
- Flexible installation via Allen wrench or flathead screwdriver
- Extremely rugged housing - rated for IP67 respectively IP 68 and IP 69K, enlarging sensor life time

→ www.mysick.com/en/MZT8

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.






Ordering information

Other models available at www.mysick.com/en/MZT8

- **Cylinder types:** T-slot
- **Cylinder types with adapter:** Profile cylinder, Roundbody cylinder, SMC rail cylinder CDQ2 (T-Slot), SMC rail cylinder ECDQ2 (T-Slot), Tie rod cylinder, Dove-tail groove cylinder
- **Output function:** NO

Overrun distance typ.	Magnetic field sensitivity, min.	Switching output	Connection	Model name	Part no.
3 mm	2.6 mT	PNP	Cable, 3-wire, 2 m, PUR	MZT8-03VPS-KUO	1044469
			Cable with plug, M8, 3-pin, 0.3 m, PUR	MZT8-03VPS-KPO	1044458
			Cable with plug, M8, 3-pin, with knurled screws, 0.5 m, PUR	MZT8-03VPS-KRO	1044459
			Cable with plug, M12, 3-pin, 0.3 m, PUR	MZT8-03VPS-KQO	1044460
		NPN	Cable, 3-wire, 2 m, PUR	MZT8-03VNS-KUO	1044934
			Cable with plug, M8, 3-pin, 0.3 m, PUR	MZT8-03VNS-KPO	1044932
9 mm	2.8 mT	PNP	Cable, 3-wire, 2 m, PUR	MZT8-28VPS-KUO	1048049
			Cable with plug, M8, 3-pin, 0.3 m, PUR	MZT8-28VPS-KPO	1048048
			Cable with plug, M8, 3-pin, with knurled screws, 0.5 m, PUR	MZT8-28VPS-KRO	1048050
			Cable with plug, M12, 3-pin, 0.3 m, PUR	MZT8-28VPS-KQO	1048051

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Brackets for cylinder sensors	For profile cylinder/tie-rod cylinder	Zinc diecast	BEF-KHZ-PT1	2022702
		For round body cylinders	Plastic, nickel silver	BEF-KHZ-RT1-130	5311506
				BEF-KHZ-RT1-25	5311171
				BEF-KHZ-RT1-63	5311172
		For cylinders with dovetail-slot	Aluminum	BEF-KHZ-ST1	2022703



At a glance

- Compact housing design
- Enclosure rating: IP 68 / IP 69K
- Combined Allen and flathead fixing screw
- LED function indicator
- For all commonly used cylinders with T-slots, e.g., Festo or SMC and it can be applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets

Your benefits

- High resistance to shock, vibration and liquids
- Drop-in T-slot mounting from above makes assembly easy
- Easy installation with Allen wrench or flat head screwdriver

→ www.mysick.com/en/RZT6

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/RZT6

- **Cylinder types:** T-slot
- **Cylinder types with adapter:** Profile cylinder, Roundbody cylinder, SMC rail cylinder CDQ2 (T-Slot), SMC rail cylinder ECDQ2 (T-Slot), Tie rod cylinder, Dove-tail groove cylinder
- **Switching output:** Reed

Electrical wiring	Connection	Model name	Part no.
AC/DC 2-wire	Cable, 2-wire, 2 m, PVC	RZT6-03ZUS-KW0	1025522
AC/DC 3-wire	Cable, 3-wire, 2 m, PVC	RZT6-03ZRS-KW0	1023974
	Cable with plug, M8, 3-pin, 0.3 m, PUR	RZT6-03ZRS-KP0	1023973
	Cable with plug, M8, 3-pin, with knurled screws, 0.5 m, PUR	RZT6-03ZRS-KR0	1023975
	Cable with plug, M12, 3-pin, 0.3 m, PUR	RZT6-03ZRS-KQ0	1025549

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Brackets for cylinder sensors	For profile cylinder/tie-rod cylinder	Zinc diecast	BEF-KHZ-PT1	2022702
		For round body cylinders	Plastic, nickel silver	BEF-KHZ-RT1-25	5311171
		For cylinders with dovetail-slot	Aluminum	BEF-KHZ-ST1	2022703