

Sensors

measuring range steel ST317
mm
sensitivity
V/mm
typical resolution
µm
cut-off frequency / -3dB
kHz
typ. temperature stability in %/K/°C (10°C - 90°C measured at 50% Mb)
design
sensor shielded yes/no
dimensions
mm
length
mm
electrical connection
cable outlet on the sensor
particularity

Part No.	Measuring range	Sensitivity	Resolution	Cut-off frequency	Temp. stability	Design	Shielded	Dimensions	Length	Electrical connection	Cable outlet	Particularity
A02	0...0,4	10	0,4	45	0,02	threaded sleeve	no	M3x0,35	18	special cable 0,25m	straight plug	Adapter cable 1,25m necessary
A03	0...0,8	10	0,4	40	0,02	threaded sleeve	yes	M6x0,75	24	connecting cable 1,5m	straight plug	
A03-S01	0...0,8	10	0,4	40	0,02	zylinder	yes	D6	12	special cable 0,25m	straight plug	Adapter cable 1,25m necessary
A03-S02	0...0,8	10	0,4	40	0,02	zylinder	yes	D6	12	special cable 0,25m	right-angle plug	Adapter cable 1,25m necessary
A03-S03	0...0,8	10	0,4	40	0,02	threaded sleeve	yes	M10x1	32	connecting cable 1,5m	straight plug	
A03-S04	0...0,8	10	0,4	40	0,02	finger	yes	D9	42,5	connecting cable 1,5m	straight plug	Sensor in the flattened part 90°
A03-S05	0...0,8	10	0,4	40	0,02	zylinder	yes	D3,7	15	special cable 0,25m	straight plug	Adapter cable 1,25m necessary
A03-S06	0...0,8	10	0,4	40	0,02	zylinder	yes	D4	7	special cable 0,25m	straight plug	Adapter cable 1,25m necessary
A03-S07	0...0,8	10	0,4	40	0,02	zylinder	yes	D5	6	special cable 0,25m	right-angle plug	Adapter cable 1,25m necessary
A03-S08	0...0,8	10	0,4	40	0,02	zylinder	yes	D4	6	special cable 0,25m	straight plug	Adapter cable 1,25m necessary
A03-S09	0...0,8	10	0,4	40	0,02	threaded sleeve	yes	M6x0,75	27	connecting cable 1,5m	straight plug	
A03-S10	0...0,8	10	0,4	40	0,02	threaded sleeve	yes	M6x0,75	36	connecting cable 1,5m	straight plug	
A03-S11	0...0,8	10	0,4	40	0,02	threaded sleeve	yes	M5x0,5	8	special cable 0,25m	straight plug	Adapter cable 1,25m necessary
A04	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M6x0,75	23,7	connecting cable 1,5m	straight plug	
A04-S01	1...1,25	10	0,5	30	0,02	zylinder	no	D5	28,7	connecting cable 1,5m	straight plug	
A04-S02	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M6x0,75	15,2	connecting cable 1,5m	straight plug	
A04-S03-36	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	36	connecting cable 1,5m	straight plug	
A04-S03-50	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	50	connecting cable 1,5m	straight plug	
A04-S03-70	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	70	connecting cable 1,5m	straight plug	
A04-S03-75	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	75	connecting cable 1,5m	straight plug	
A04-S03-80	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	80	connecting cable 1,5m	straight plug	
A04-S03-100	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	100	connecting cable 1,5m	straight plug	
A04-S03-110	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	110	connecting cable 1,5m	straight plug	
A04-S04	1...1,25	10	0,5	30	0,02	finger	yes	D8	33,5	connecting cable 1,5m	straight plug	Sensor in the flattened part 90°
A04-S05	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	35,7	connecting cable 1,5m	straight plug	
A04-S06	0...1,00	10	0,5	30	0,02	zylinder	yes	D8	10	special cable 0,25m	right-angle plug	Adapter cable 1,25m necessary
A04-S07	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M6x0,75	28,7	connecting cable 1,5m	straight plug	
A04-S08	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M6x0,75	40	connecting cable 1,5m	straight plug	
A04-S09	1...1,25	10	0,5	30	0,02	finger	yes	D8	42,5	connecting cable 1,5m	straight plug	Sensor in the flattened part 90°
A04-S10-56	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	56	connecting cable 1,5m	straight plug	
A04-S10-61	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	61	connecting cable 1,5m	straight plug	
A04-S10-68	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	68	connecting cable 1,5m	straight plug	
A04-S10-86	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	86	connecting cable 1,5m	straight plug	
A04-S10-135	1...1,25	10	0,5	30	0,02	threaded sleeve	no	M10x1	135	connecting cable 1,5m	straight plug	
A04-S11	1...1,25	10	0,5	30	0,02	tongue	yes	34x4	32,5	connecting cable 1,5m	straight plug	
A07	0...2,5	4	1	25	0,02	threaded sleeve	no	M10x1	24,5	connecting cable 1,5m	straight plug	
A07-S01	0...2,5	4	1	25	0,02	disc	yes	D25		connecting cable 1,5m	straight plug	
A07-S02	0...2,5	4	1	25	0,02	zylinder	no	D8	21,5	connecting cable 1,5m	right-angle plug	
A07-S03	0...2,5	4	1	25	0,02	zylinder	no	D8	21,5	connecting cable 1,5m	straight plug	Groove in the rear area
A07-S04	0...2,0	5	1	25	0,02	threaded sleeve	yes	M10x1	20	connecting cable 1,5m	straight plug	
A07-S05	0...2,5	4	1	25	0,02	threaded sleeve	no	M10x1	31,5	connecting cable 1,5m	straight plug	
A07-S06	0...2,5	4	1	25	0,02	threaded sleeve	no	M12x1,25	42,7	Lemo socket	straight plug	
A07-S07	0...2,5	4	1	25	0,02	threaded sleeve	no	D8 / M12x1,25	60	Lemo socket	straight plug	in the rear area sealing surface for O-ring
A07-S08	0...2,0	5	1	25	0,02	threaded sleeve	yes	M12x1	40	Lemo socket	straight plug	
A07-S09	0...2,0	5	1	25	0,02	zylinder	yes	8h7	12	special cable 0,25m	straight plug	Adapter cable 1,25m necessary
A07-S10	0...2,0	5	1	25	0,02	threaded sleeve	yes	D8,8 / M10x1	30	connecting cable 1,5m	straight plug	in the rear area sealing surface for O-ring
A07-S11	0...2,5	4	1	25	0,02	tongue	yes	9	25	connecting cable 1,5m	straight plug	
A07-S12	0...2,5	4	1	25	0,02	threaded sleeve	no	D10 / M14x1	90	Lemo socket	straight plug	
A07-S13	0...2,0	5	1	25	0,02	threaded sleeve	yes	M10x1	8	special cable 0,25m	right-angle plug	Adapter cable 1,25m necessary
A07-S14	0...2,5	4	1	25	0,02	threaded sleeve	no	M10x1	50	connecting cable 1,5m	straight plug	
A07-S16	0...2,5	4	1	25	0,02	threaded sleeve	no	M10x1	45,5	connecting cable 1,5m	straight plug	
A07-S17	0...2,5	4	1	25	0,02	zylinder	no	D8	9,5	special cable 0,25m	right-angle plug	Adapter cable 1,25m necessary
A07-S18	0...2,5	4	1	25	0,02	tongue	yes	9	33,5	connecting cable 1,5m	straight plug	
A09	0...3	3,3	1	20	0,02	threaded sleeve	no	M12x1,25	32,1	connecting cable 1,5m	straight plug	
A09-S01	0...3	3,3	1	20	0,02	disc	yes	D30	30x5,5	connecting cable 1,5m	straight plug	
A09-S02	0...3	3,3	1	20	0,02	threaded sleeve	no	M12x1,25	43,3	connecting cable 1,5m	straight plug	
A11	0...4	2,5	2	20	0,02	threaded sleeve	no	M14x1	32,7	connecting cable 1,5m	straight plug	
A11-S01	0...4	2,5	2	20	0,02	zylinder	no	D13	16,9	connecting cable 1,5m	right-angle plug	O-ring groove in the front area
A11-S02	0...4	2,5	2	20	0,02	zylinder	no	D12	9,7	connecting cable 1,5m	straight plug	
A11-S03	0...4	2,5	2	20	0,02	threaded sleeve	no	M14x1	38,7	Camac socket	straight plug	Special socket Camac waterproof
A11-S04-30	0...4	2,5	2	20	0,02	threaded sleeve	no	M14x1	30	Lemo socket	straight plug	
A11-S04-50	0...4	2,5	2	20	0,02	threaded sleeve	no	M14x1	60	Lemo socket	straight plug	
A11-S04-90	0...4	2,5	2	20	0,02	threaded sleeve	no	M14x1	90	Lemo socket	straight plug	
A11-S05	0...3	3,33	2	20	0,02	threaded sleeve	yes	M14x1	40	Lemo socket	straight plug	
A11-S06	0...3	3,33	2	20	0,02	zylinder	yes	D12	15	connecting cable 1,5m	straight plug	
A11-S07	0...4	2,5	2	20	0,02	threaded sleeve	no	M16x1	22,85	connecting cable 1,5m	right-angle plug	
A11-S08	0...3	3,33	2	20	0,02	threaded sleeve	yes	M14x1	10	connecting cable 1,5m	straight plug	
A11-S09	0...4	2,5	2	20	0,02	zylinder	no	D13	16,9	connecting cable 1,5m	straight plug	
A11-S10	0...3	3,33	2	20	0,02	threaded sleeve	yes	M14x1	40	connecting cable 1,5m	straight plug	Vacuum-tight design for o-ring seal
A11-S11	0...4	2,5	2	20	0,02	disc	yes	D30x5,5	30x5,5	connecting cable 1,5m	straight plug	
A11-S12-60	0...4	2,5	2	20	0,02	zylinder	no	D12	63,9	Lemo socket	straight plug	
A11-S13	0...4	2,5	2	20	0,02	threaded sleeve	no	M14x1	11	connecting cable 1,5m	straight plug	
A11-S14	0...4	2,5	2	20	0,02	threaded sleeve	no	M16x1,5	50	connecting cable 1,5m	straight plug	
A11-S15	0...4	2,5	2	20	0,02	zylinder	no	D12	9,7	connecting cable 1,5m	right-angle plug	
A11-S16	0...3	3,33	2	20	0,02	threaded sleeve	yes	M14x1	20	connecting cable 1,5m	straight plug	
A11-S17	0...4	2,5	2	20	0,02	tongue	yes	14	38	connecting cable 1,5m	straight plug	
A11-S18	0...4	2,5	2	20	0,02	threaded sleeve	no	M14x1	60	connecting cable 1,5m	straight plug	
A11-S20	0...4	2,5	2	20	0,02	threaded sleeve	no	M16x1,5	43,3	connecting cable 1,5m	straight plug	
A14	0...6	1,67	2,5	17	0,02	threaded sleeve	no	M16x1	33,5	connecting cable 1,5m	straight plug	
A14-S01	0...6	1,67	2,5	17	0,02	zylinder	no	D16	33,5	connecting cable 1,5m	straight plug	Sealing groove in the rear area
A14-S02	0...6	1,67	2,5	17	0,02	threaded sleeve	no	M16x1	15,5	connecting cable 1,5m	straight plug	
A18	0...7,5	1,33	3	15	0,02	threaded sleeve	no	M22x1,5	47	Lemo socket	straight plug	
A18-S01	0...7,5	1,33	3	15	0,02	threaded sleeve	no	M22x1,5	42,7	Lemo socket	straight plug	
A18-S02	0...7,5	1,33	3	15	0,02	disc	yes	D40	40x8	connecting cable 1,5m	straight plug	
A18-S03	0...6	1,67	3	15	0,02	threaded sleeve	yes	M22x1,5	40	Lemo socket	straight plug	
A18-S04	0...6	1,67	3	15	0,02	threaded sleeve	yes	M22x1,5	46	Camac socket	straight plug	special connection
A22	0...12	0,83	6	12	0,02	threaded sleeve	no	M27x1,5	49,3	Lemo socket	straight plug	
A22-S01	0...12	0,83	6	12	0,02	threaded sleeve	no	M27x1,5	52	Lemo socket	straight plug	
A22-S02	0...8	1,25	6	12	0,02	threaded sleeve	yes	M27x1,5	43,3	Lemo socket	straight plug	
A22-S03	0...10	1,0	6	12	0,02	disc	yes	D45	45x9	connecting cable 1,5m	straight plug	
A26	0...10	1,0	4	10	0,02	threaded sleeve	no	M30x1,5	51	Lemo socket	straight plug	
A26-S01	0...10	1,0	4	10	0,02	threaded sleeve	no	D31,4 / 7/8-14 UNF-2B	50	Lemo socket	straight plug	Thread 7/8-14 UNF-2B; Head diameter 31,4mm
A26-S02	0...10	1,0	4	10	0,02	threaded sleeve	no	M30x1,5	20	connecting cable 1,5m	straight plug	
A30	0...15	0,67	7	9	0,02	zylinder	no	M22x1,5	52,3	Lemo socket	straight plug	
A30-S01	0...15	0,67	7	9	0,02	threaded sleeve	no	M36x1,5	48,3	Lemo socket	straight plug	Thread M36, Head diameter 31,8mm
A30-S02	0...15	0,67	7	9	0,02	threaded sleeve	no	M36x1,5	20	connecting cable 1,5m	straight plug	Thread M36, Head diameter 31,8mm
A36	0...18	0,55	9	8	0,02	zylinder	no	D37	42,5	Lemo socket	straight plug	Thread M22; Head diameter 37mm
A36-S01	0...18	0,55	9	8	0,02	zylinder	no	D37	33,5	connecting cable 1,5m	straight plug	Thread M22; Head diameter 37mm
A42	0...20	0,5	8	8	0,02	zylinder	no	D45	62,5	Lemo socket	straight plug	Thread M30; Head diameter 45mm
A42-S01	0...20	0,55	8	8	0,02	zylinder	no	D45	61,4	Lemo socket	straight plug	Thread M30; Head diameter 45mm
A68	0...30	0,33	5	8	0,02	zylinder	no	D73	52,5	Lemo socket	straight plug	Thread M30; Head diameter 73mm



Sensors
Measurement Technique
DMS-Application
Electronics Development

Example pictures
for further designs:



Further sample pictures:

