

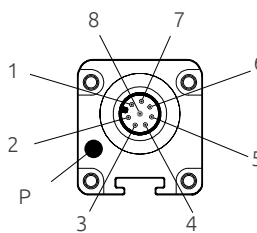
MICRON A

TECHNICAL FEATURES

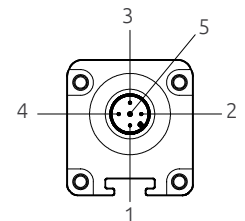
Max. range (m)	- 2,5 - models with beam spacing 5 mm - 10 - models with beam spacing 10, 30 mm - 18 - models with beam spacing 25, 50, 75 mm
Measurement time	(500 μ s + 70 μ s x n beams) x N Where N = scan cycles (1, 2, 3 selectable)
Scan cycles	1, 2, 3 selectable
Inputs (on receiver)	1 digital with programmable functions - 0 or 24 VDC
MI AV (5, 25, 50, 75 mm) Outputs	- 2 analog outputs (0-10 VDC) programmable - 2 solid state programmable digital outputs 0 or 24V (PNP 100 mA 24 VDC)
MI AC (5, 25, 50, 75 mm) Outputs	- 2 analog outputs (4-20 mA) programmable - 2 solid state programmable digital outputs 0 or 24V (PNP 100 mA 24 VDC)
MI AV (10, 30 mm) Outputs	- 2 analog outputs (0-10 VDC) programmable - 2 solid state programmable digital outputs 0 or 24V (Push-Pull). See
MI AC (10, 30 mm) Outputs	- 2 analog outputs (4-20 mA) programmable - 2 solid state programmable digital outputs 0 or 24V (Push-Pull). See
Synchronisation between emitter and receiver	Optical or via cable, selectable
Electrical connections	M12 5-pole connector (emitter) M12 8-pole connector (receiver) M5 4-pole connector for programming interface
Status display	LEDs for operating status and light curtain self-diagnosis
Power supply (VDC)	24 \pm 20%
Fastening	Back slot, or to the top and lower end with SFB E180 rotating brackets (optional)

CONNECTORS

Receiver M12 8-pole



Emitter M12 5-pole



- 1 - OUT 2/SYNC
- 2 - 24 VDC
- 3 - OUT 1
- 4 - INPUT
- 5 - ANALOG_OUT 2
- 6 - ANALOG_OUT 1
- 7 - 0 VDC
- 8 - PE

- P - Programming
M5 4-pole connector

- 1 - 24 VDC
- 2 - RANGE
- 3 - 0 VDC
- 4 - SYNC
- 5 - PE



Beam spacing (mm)	Analog output	Digital output
5 - 10 - 25 30 - 50 - 75	2	2

Models MI AV equipped with two analog outputs (0-10 VDC) with programmable functions and two programmable digital outputs.

Models MI AC equipped with two analog outputs (4-20 mA) with programmable functions and two programmable digital outputs.

Controlled heights: 150 ... 3000 mm.

Programming interface: USB interface on M5 4-pole connector. See [page 25](#).

Max. length connection cables between light curtain and interface: 100 (m).



PART NUMBERS

Micron A - Beam spacing 5 mm

Micron A (AV) Beam spacing 5 mm	MI 150AV	MI 300AV	MI 450AV	MI 600AV	MI 750AV	MI 900AV	MI 1050AV	MI 1200AV	MI 1350AV	MI 1500AV
Ordering codes	1250580	1250581	1250582	1250583	1250584	1250585	1250586	1250587	1250588	1250589
Micron A (AC) Beam spacing 5 mm	MI 150AC	MI 300AC	MI 450AC	MI 600AC	MI 750AC	MI 900AC	MI 1050AC	MI 1200AC	MI 1350AC	MI 1500AC
Ordering codes	1250520	1250521	1250522	1250523	1250524	1250525	1250526	1250527	1250528	1250529
Measuring height (mm)	145	295	395	595	745	895	1045	1195	1345	1495
Number of beams	30	60	90	120	150	180	210	240	270	300
Overall height (mm)	223	373	523	673	823	973	1123	1273	1423	1573

Micron A - Beam spacing 10 mm

Micron A (AV) Beam spacing 10 mm	MI 151AV	MI 301AV	MI 451AV	MI 601AV	MI 751AV	MI 901AV	MI 1051AV	MI 1201AV	MI 1351AV	MI 1501AV	MI 1651AV	MI 1801AV	MI 1951AV	MI 2101AV	MI 2251AV	MI 2401AV	MI 2551AV	MI 2701AV	MI 2851AV	MI 3001AV
Ordering codes	1250020	1250021	1250022	1250023	1250024	1250025	1250026	1250027	1250028	1250029	1250030	1250031	1250032	1250033	1250034	1250035	1250036	1250037	1250038	1250039
Micron A (AC) Beam spacing 10 mm	MI 151AC	MI 301AC	MI 451AC	MI 601AC	MI 751AC	MI 901AC	MI 1051AC	MI 1201AC	MI 1351AC	MI 1501AC	MI 1651AC	MI 1801AC	MI 1951AC	MI 2101AC	MI 2251AC	MI 2401AC	MI 2551AC	MI 2701AC	MI 2851AC	MI 3001AC
Ordering codes	1250120	1250121	1250122	1250123	1250124	1250125	1250126	1250127	1250128	1250129	1250130	1250131	1250132	1250133	1250134	1250135	1250136	1250137	1250138	1250139
Measuring height (mm)	140	290	440	590	740	890	1040	1190	1340	1490	1640	1790	1940	2090	2240	2390	2540	2690	2840	2990
Number of beams	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863	2013	2163	2313	2463	2613	2763	2913	3063

Micron A - Beam spacing 25 mm

Micron A (AV) Beam spacing 25 mm	MI 152AV	MI 302AV	MI 452AV	MI 602AV	MI 752AV	MI 902AV	MI 1052AV	MI 1202AV	MI 1352AV	MI 1502AV	MI 1652AV	MI 1802AV	MI 1952AV	MI 2102AV	MI 2252AV	MI 2402AV	MI 2552AV	MI 2702AV	MI 2852AV	MI 3002AV
Ordering codes	1250040	1250041	1250042	1250043	1250044	1250045	1250046	1250047	1250048	1250049	1250050	1250051	1250052	1250053	1250054	1250055	1250056	1250057	1250058	1250059
Micron A (AC) Beam spacing 25 mm	MI 152AC	MI 302AC	MI 452AC	MI 602AC	MI 752AC	MI 902AC	MI 1052AC	MI 1202AC	MI 1352AC	MI 1502AC	MI 1652AC	MI 1802AC	MI 1952AC	MI 2102AC	MI 2252AC	MI 2402AC	MI 2552AC	MI 2702AC	MI 2852AC	MI 3002AC
Ordering codes	1250140	1250141	1250142	1250143	1250144	1250145	1250146	1250147	1250148	1250149	1250150	1250151	1250152	1250153	1250154	1250155	1250156	1250157	1250158	1250159
Measuring height (mm)	125	275	425	575	725	875	1025	1175	1325	1475	1625	1775	1925	2075	2225	2375	2525	2625	2825	2975
Number of beams	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863	2013	2163	2313	2463	2613	2763	2913	3063

Micron A - Beam spacing 30 mm

Micron A (AV) Beam spacing 30 mm	MI 153AV	MI 303AV	MI 453AV	MI 603AV	MI 753AV	MI 903AV	MI 1053AV	MI 1203AV	MI 1353AV	MI 1503AV	MI 1653AV	MI 1803AV	MI 1953AV	MI 2103AV	MI 2253AV	MI 2403AV	MI 2553AV	MI 2703AV	MI 2853AV	MI 3003AV
Ordering codes	1250060	1250061	1250062	1250063	1250064	1250065	1250066	1250067	1250068	1250069	1250070	1250071	1250072	1250073	1250074	1250075	1250076	1250077	1250078	1250079
Micron A (AC) Beam spacing 30 mm	MI 153AC	MI 303AC	MI 453AC	MI 603AC	MI 753AC	MI 903AC	MI 1053AC	MI 1203AC	MI 1353AC	MI 1503AC	MI 1653AC	MI 1803AC	MI 1953AC	MI 2103AC	MI 2253AC	MI 2403AC	MI 2553AC	MI 2703AC	MI 2853AC	MI 3003AC
Ordering codes	1250160	1250161	1250162	1250163	1250164	1250165	1250166	1250167	1250168	1250169	1250170	1250171	1250172	1250173	1250174	1250175	1250176	1250177	1250178	1250179
Measuring height (mm)	120	270	420	570	720	870	1020	1170	1320	1470	1620	1770	1920	2070	2220	2370	2520	2670	2820	2970
Number of beams	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863	2013	2163	2313	2463	2613	2763	2913	3063

CABLES NEEDED

- Emitter M12 5-pole. See [page 23](#) (CD x, CD x SB, CD 9x, CDM 9 CDM 99)
- Receiver M12 8-pole. See [page 24](#) (C8D x, C8D x SB, C8D 9x, C8DM 9, C8DM 99, C8DM 11, C8DM 911)

ACCESSORIES

- Support columns. See [page 27](#)
- Laser alignment device. See [page 30](#)
- Vibration dampers. See [page 29](#)
- Brackets. See [page 29](#)

Micron A - Beam spacing 50 mm

Micron A (AV)	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
Beam spacing 50 mm	155AV	305AV	455AV	605AV	755AV	905AV	1055AV	1205AV	1355AV	1505AV	1655AV	1805AV	1955AV	2105AV	2255AV	2405AV	2555AV	2705AV	2855AV	3005AV
Ordering codes	1250080	1250081	1250082	1250083	1250084	1250085	1250086	1250087	1250088	1250089	1250090	1250091	1250092	1250093	1250094	1250095	1250096	1250097	1250098	1250099
Micron A (AC)	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
Beam spacing 50 mm	155AC	305AC	455AC	605AC	755AC	905AC	1055AC	1205AC	1355AC	1505AC	1655AC	1805AC	195AC	210AC	2255AC	2405AC	2555AC	2705AC	2855AC	3005AC
Ordering codes	1250180	1250181	1250182	1250183	1250184	1250185	1250186	1250187	1250188	1250189	1250190	1250191	1250192	1250193	1250194	1250195	1250196	1250197	1250198	1250199
Measuring height (mm)	100	250	400	550	700	850	1000	1150	1300	1450	1600	1750	1900	2050	2200	2350	2500	2650	2800	2950
Number of beams	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863	2013	2163	2313	2463	2613	2763	2913	3063

Micron A - Beam spacing 75 mm

Micron A (AV)	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
Beam spacing 75 mm	157AV	307AV	457AV	607AV	757AV	907AV	1057AV	1207AV	1357AV	1507AV	1657AV	1807AV	1957AV	2107AV	2257AV	2407AV	2557AV	2707AV	2857AV	3007AV
Ordering codes	1250100	1250101	1250102	1250103	1250104	1250105	1250106	1250107	1250108	1250109	1250110	1250111	1250112	1250113	1250114	1250115	1250116	1250117	1250118	1250119
Micron A (AC)	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
Beam spacing 75 mm	157AC	307AC	457AC	607AC	757AC	907AC	1057AC	1207AC	1357AC	1507AC	1657AC	1807AC	1957AC	2107AC	2257AC	2407AC	2557AC	2707AC	2857AC	3007AC
Ordering codes	1250200	1250201	1250202	1250203	1250204	1250205	1250206	1250207	1250208	1250209	1250210	1250211	1250212	1250213	1250214	1250215	1250216	1250217	1250218	1250219
Measuring height (mm)	75	225	375	525	675	825	975	1125	1275	1425	1575	1725	1875	2025	2175	2325	2475	2625	2775	2925
Number of beams	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
Overall height (mm)	213	363	513	663	813	963	1113	1263	1413	1563	1713	1863	2013	2163	2313	2463	2613	2763	2913	3063



Car wash application of Micron WT version