



Non-contact measuring and checking of surface profile, dimensions, 3D models construction

- Measuring ranges from 5 to 1400 mm
- ±5 um accuracy
- Ethernet/Analog (4..20mA)/Analog(0..12V)
- Sampling rate up to 1875 profiles/s
- Sensors with BLUE, RED and IR lasers

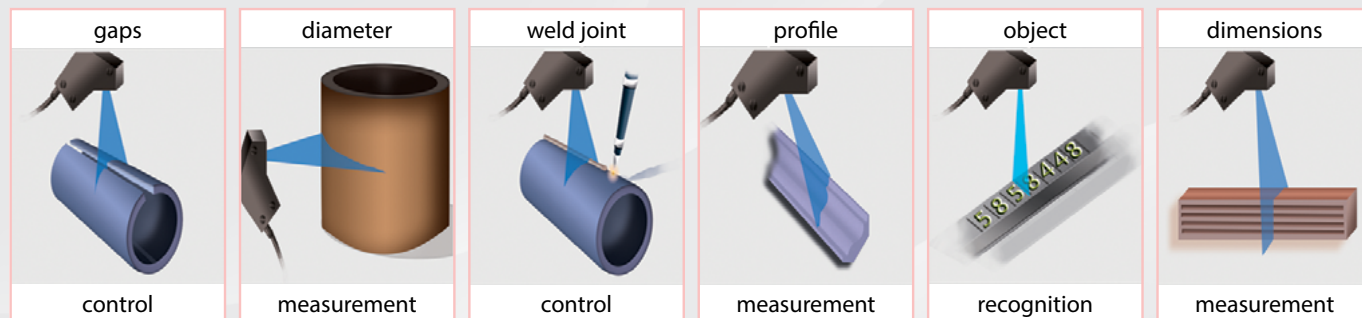
BASIC TECHNICAL DATA

Working ranges and dimensions									
Range	MR, mm	SMR, mm	EMR, mm	Xsmr, mm	Xemr, mm	Laser	Size, mm	Weight, g	Housing version
40/5-6/7	5	40	45	6	7	Class 2M	30x88x120	400	Compact
35/10-10/12	10	35	45	10	12				
55/10-10/11	10	55	65	10	11				
30/25-18/26	25	30	55	18	26				
65/25-17/23	25	65	90	17	23				
55/50-27/45	50	55	105	27	45				
90/50-23/35	50	90	140	23	35				
75/95-34/67	95	75	170	34	67				
60/35-20/30	35	60	95	20	30				
65/65-35/55	65	65	130	35	55				
140/110-43/68	110	140	250	43	68	Class 2M or 3B	50x98x144	500	Standard
125/200-60/130	200	125	325	60	130				
100/250-75/180	250	100	350	75	180				
140/250-70/155	250	140	390	70	155				
90/10-9/10	10	90	100	9	10				
240/20-14/16	20	240	260	14	16				
175/250-115/230	250	175	425	115	230	4 W, 808 nm, Class 3B	66x171x235	2000	Special
165/300-130/240	300	165	465	130	240	Class 2M or 3B	48x106x219	1100	
240/290-200/320	290	240	530	200	320	Class 2M or 3B	50x125x360	3000	
450/650-190/420	650	450	1100	190	420	Class 3B	50x110x300	3000	
425/990-330/960	990	425	1415	330	960	Class 3B	48x198x480	2500	
540/1400-340/980	1400	540	1940	340	980	Class 3B	48x210x415	3000	

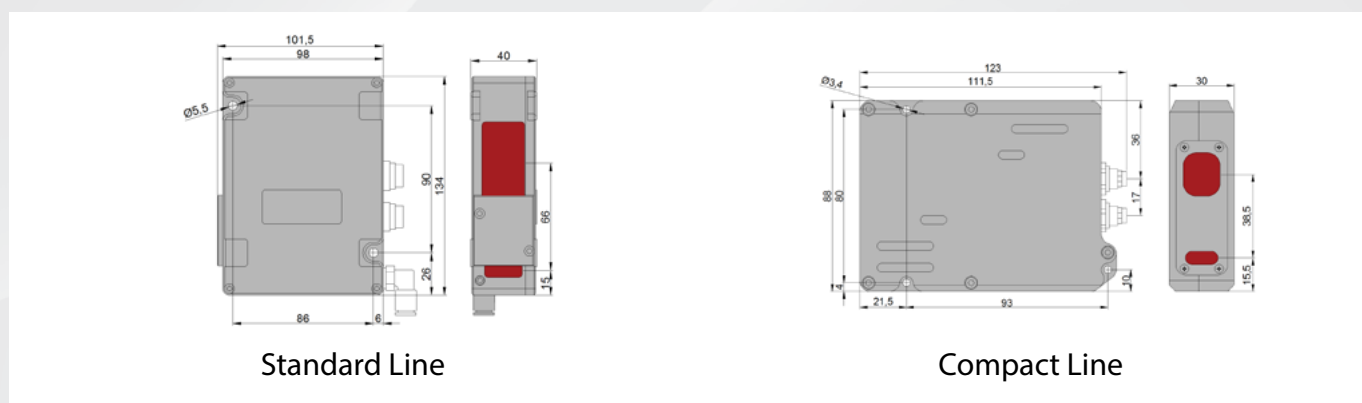
Overall specifications	
Sampling rate and accuracy	
Nominal sampling rate	248 profiles/s (standard mode), 491 profiles/s (mode of increased frequency)
Maximal sampling rate	1875 profiles/s
Linearity, Z axis	±0.1% of the range
Linearity, X axis	±0.2% of the range
Interface	
Digital	Ethernet IPv4
Analog	4...20 mA or 0...10 V
Synchronization inputs/outputs	RS422
Synchronization inputs	up to 3 channels
Synchronization outputs	up to 2 channels
Power supply	15...30 V
Environment resistance	
Enclosure rating	IP67
Vibration	20g/10...1000Hz, 6 hours, for each of XYZ axes
Shock	30 g/6 ms
Ambient temperature, °C	0...+40, (-20...+40 for the sensors with in-built heater), (-30...+120 for the sensors with in-built heater and water/air cooling housing). Note: At ambient temperature below -20, the scanner starts to warm up to -20 after switching on, and then starts to work.
Relative humidity	5-95% (no condensation)
Storage temperature, °C	-20...+70
Housing/windows material	aluminum/glass
Laser lifetime	
Red (660 nm)	50000 hours
Blue (405, 450 nm)	50000 hours
Infrared (880 nm)	50000 hours



APPLICATIONS



OVERALL DIMENSIONS



EXAMPLE OF ITEM DESIGNATION WHEN ORDERING

625-(Color)-SMR/MR-XSMR/XEMR-Sync Type-Sync Signal-Sync IN (1..3)-Sync OUT(0..2)-Analog Output-Corner Connector-Cable Type-Cable Length-Heating-AK-EW-AC

Symbol	Description
(COLOR)	Red 660 – without symbol, Blue 405 nm or 450 nm – Blue, IR 808 nm - IR
SMR	Start of measurement range for Z, mm
MR	Measurement range for Z, mm
Xsmr	X-range at beginning of Z, mm
Xemr	X-range at the end of Z, mm
Sync TYPE	Synchronization type: BASIC – synchronization by the basic internal timer of the scanner. ENC – synchronization by the encoder signals. STEPDIR – synchronization by the StepDir signals on the external inputs. INOUT – scanners with one sync input and one sync output. FULLSYNC – scanners with three sync inputs and two sync outputs.
Sync Signal	Type of input sync signal: TTL – pulse signal on the one wire referenced to ground. RS422 – differential pair in accordance with the RS422 standard.
SYNC IN (1..3)	Synchronization inputs: BASIC - 1 ENC - 3 STEPDIR - 2 INOUT - 1 FULLSYNC - 3
SYNC OUT(0..2)	Synchronization outputs: BASIC - 0 ENC - 0 STEPDIR - 0 INOUT - 1 FULLSYNC - 2
ANALOG	Two analog outputs, 0...10V or 4...20mA
CORNER (90°, direction)	Angle cable connector the installation angle is 90° direction is the connector direction
Cable Type	Cable type: STANDARD ROBOT – option, robot-cable
M	Cable length, m
H	Inbuilt heating
AK	Air knife option
EW	Removable protective windows option
AC	Cooling option
<p>Example. 625-BLUE-60/35-20/30-BASIC-TTL-1-0-3M – blue laser, start of measurement range for Z - 60 mm, measurement range for Z - 35 mm, X-range at beginning of Z - 20 mm, X-range at the end of Z - 30 mm, sync type BASIC, sync signal TTL, sync in/out 1/0, cable length 3 m.</p>	