

Technical data

Model	InMarker				
Laser source	Pulsed Yb-Fiber laser				
Wave length	1064 nm				
Laser power	20 W	30 W	50 W	20 W	100 W
Laser class	possible with Safetycone and pilot laser class 2, possible with Safetycone without pilot laser class 1 and without Safetycone laser class 4				
Pilot laser	yes - red (optional without pilot laser)				
Pulse duration	fixed 200 ns		variable 2-350 ns		variable 2-500 ns
Pulse frequency	1-600 kHz		1-4000 KHz		
Max. Pulse energy	0,8 mJ (@ 25kHz)	0,8mJ (@37kHz)	1,25mJ (40kHz)	0,8mJ (@25kHz)	1,5mJ (@67kHz)
Typical service life of pump diodes	100.000h				
Laser beam quality	M ² <1,5		M ² <1,8	M ² <1,4	M ² <1,6
Marking field with Safetycone only possible with focal length 160 or 163 mm	Variant S - marking field X x Y: 50 x 40 mm / top surface: 80 x 70 mm Variant L - marking field X x Y: 90 x 70 mm / top surface: 120 x 100 mm Alternative variants: customized				
Marking field without Safetycone	70 x 70 mm, 120 x 120 mm, 150 x 150 mm, 190 x 190 mm, 240 x 240 mm, 310 x 310 mm				
Focal length	selectable: 100 mm, 160 mm, 210 mm, 254 mm, 330 mm, 420 mm				
Fieldbus / control	Profinet				
Communication	Ethernet, USB, HDMI				
Security interface	Standard: Han 3A 6pol, Option: Profisafe / Han3A RJ45				
Suction interface	Harting Han 6 24pole				
Cooling	active air-cooled				
IP Protection class	IP 54 (marking head)				
Power consumption	Max. 1.000 W				
Power supply	110 - 230V / 50-60Hz / 1-N-PE				
Laserrack	Interfaces & integrated power supply				
Safetycone	Interfaces & integrated power supply				
Fiber length	Standard: ~ 2,7 m / Option: ~ 4,7 m				
Connection package head/rack	Standard: 3 m / Option: 5 m				
Connection head/rack	Hybrid cable 1,5m				
Operating environment marking head	15 - 35 °C, non-condensing				
Operating environment rack	15 - 35 °C, 0 - 60 % non-condensing				
Weight marking head	4,6 kg				
Weight Safetycone	Variant S: 2,8 kg, Variant L: 3 kg				
Weight laser rack 19" 4HE	13 kg		16 kg	13 kg	18 kg
Weight control rack 19" 4HE	14 kg				
Dimensions marking head	306 x 120 x 106 mm				
Dimensions Safetycone	209 x 183,5 x 269,5 mm				
Dimensions laser rack 19" 4HE	450 x 177 x 540 mm				
Dimensions control rack 19" 4HE	450 x 177 x 540 mm				
Applied standards and guidelines	IEC EN 60825-1, Machinery Directive 2006/42/EG				