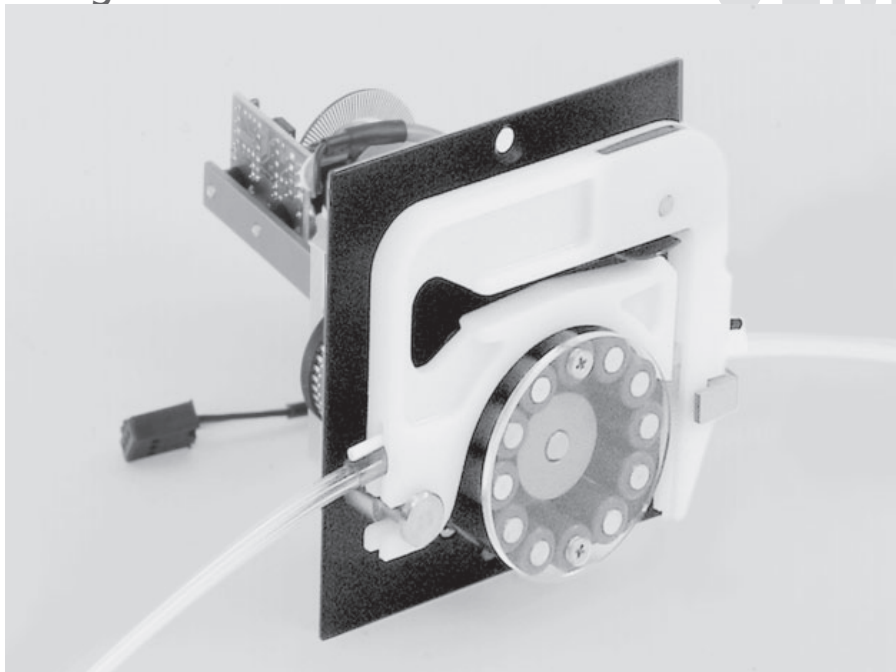
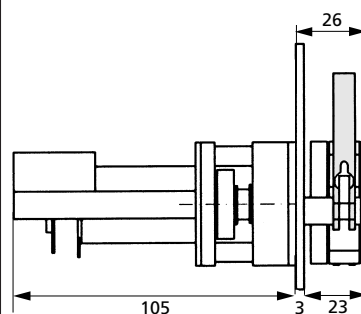


DC motor with optical encoder and gear box

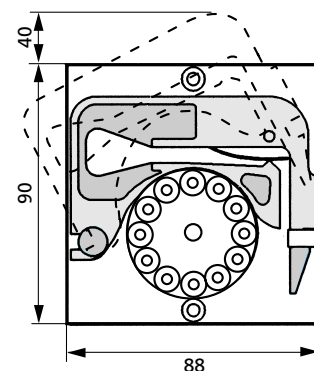
OEM



Side view (mm)



Front view (mm)



Mounting cut-out (mm)

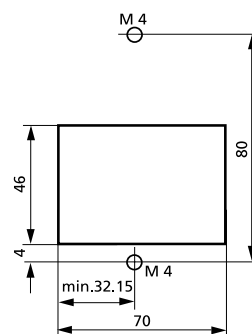
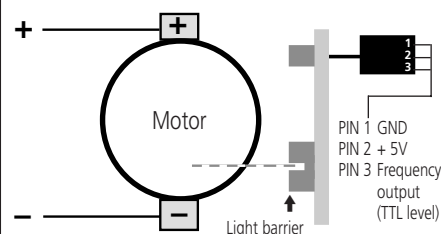


Diagram and electrical connections



*** Please note**

Specifications valid for the following ISMATEC® control units:

- a) REGLO-E *Analog* - see data sheet 08.1
- b) REGLO-E *Digital* - see data sheet 08.2

Technical specifications

Pump model	REGLO-E MS/CA1-12
Motor type	DC motor with encoder
Gear ratio	25:1
Rotation speed*	3.2–160 rpm ^{a)} 1.6–160 rpm ^{b)}
Flow rates*	0.002–38.4 ml/min
Motor control*	optional control unit
Power consumption max.	10 W
Optical encoder	120 impulses/motor rev.
Channels	1
Pump rollers	12
Weight	0.560 kg
Tubing type	3-stop collared tubing
Tubing i.d.	0.13–3.17 mm
Cassettes	MS/CA Click'n'go, POM

Cassettes (Spare part / Option)
 IS 3510 MS/CA Click'n'go, **POM-C** ²⁾
 IS 0649 MS/CA Pressure lever, **POM-C**
 IS 3629 MS/CA Pressure lever, **PVDF**

²⁾ Standard equipment
 → Please see data sheet 09.1

Flow rates¹⁾

Tubing i.d. mm	ml per revolution	Tubing i.d. mm	ml per revolution
0.13	0.00093	1.14	0.067
0.19	0.0021	1.22	0.075
0.25	0.0038	1.30	0.083
0.38	0.0088	1.42	0.094
0.44	0.012	1.52	0.10
0.51	0.016	1.65	0.12
0.57	0.019	1.75	0.13
0.64	0.024	1.85	0.13
0.76	0.033	2.06	0.15
0.89	0.044	2.29	0.17
0.95	0.050	2.54	0.19
1.02	0.056	2.79	0.21
1.09	0.063	3.17	0.24

¹⁾ Water, Tygon® tubing, without differential pressure

→ Calculation example for flow rate
 rpm x ml per revolution = ml/min
 160 x 0.24 = 38.4

Ask for the ISMATEC® Pump Tubing Selection Guide.

Ordering information

Nominal voltage	Type REGLO-E MS/CA1-12	Order No.
12 V _{DC}		IS 3258

Data sheet

02.3.6
30.09.05