



IDM8-21BE Industrial Electric Actuator

The IDM8-21BE electric actuator is a compact design for industrial applications. The units are fitted with high quality 12v or 24v DC motors for long term reliability.



IDM8-21BE Industrial Actuator

Features

- High Efficiency Ball Screw
- Protection up to IP69
- No Limit switch
- Lubricated for life
- Mechanical overload protection
- Enhanced Corrosion resistance
- Power Coated Steel outer tube
- Thrust Rod Stainless steel
- Powder coated Aluminium Alloy Housing
- Salt Spray test ISO 9227 2012, 250 hours



Specification			
Input Voltage	12 / 24 / 48 VDC		
Load Capacity	1500N	2500N	4500N
Limit switches	Not available	Not available	Optional
Maximum Pull/Push limited by internal clutch	2500N	3600N	6300N
Static Load (maximum)	14,000N		
Stroke Length	100, 150, 200, 250, 300, 400, 450, 500, 600, 700mm		
Speed at Full Load	50mm/s	31.5mm/s	21 mm/s
Speed at No Load	52.5mm/s	38mm/s	22.5mm/s
Current Consumption 12v DC	14.5A	16A	19A
Current Consumption 24v DC	7A	7.5A	10.5A
Duty Cycle	10% (12v) 20% (24v)		
Operating Temperature Range	-40 to +85°C		
Protection	IP69K/66M		

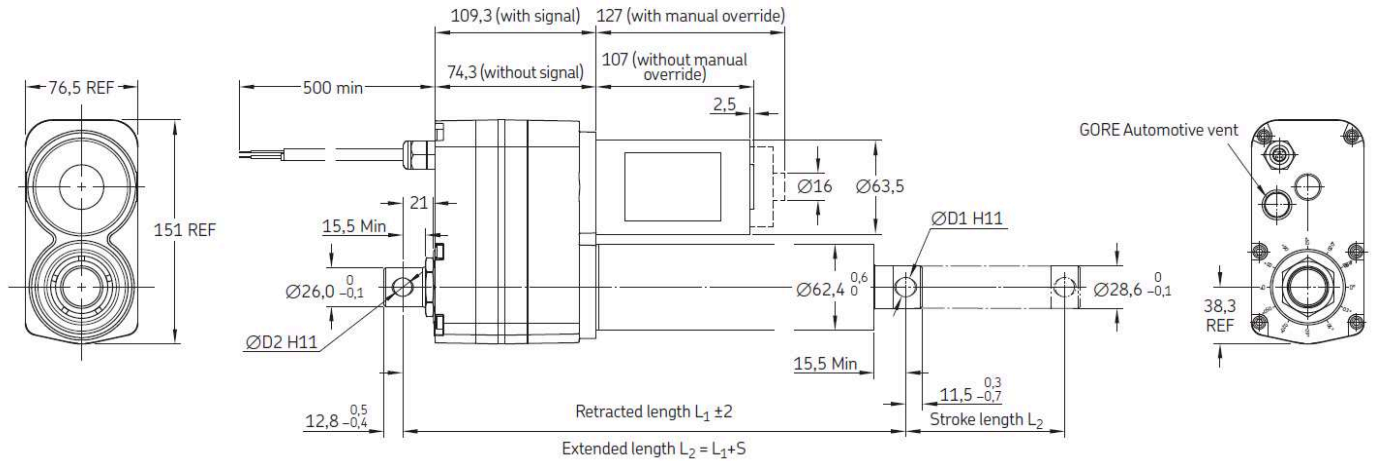
Terms of use - Product details subject to change without notice



VAT. 807373820
Company Registration. 4492419
Registered Office. Industrial Devices, Unit 32A, Atcham Business Park, Shrewsbury, Shropshire, United Kingdom SY4 4UG

Telephone. +44(0)1743 248 700
Email. sales@industrialdevicesgroup.com
Website. www.actuatorselectric.com

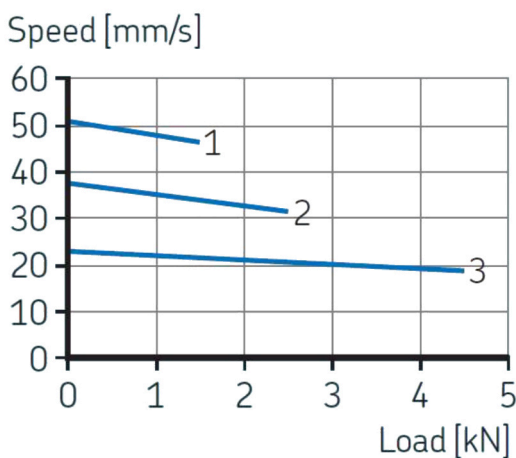
Dimensions



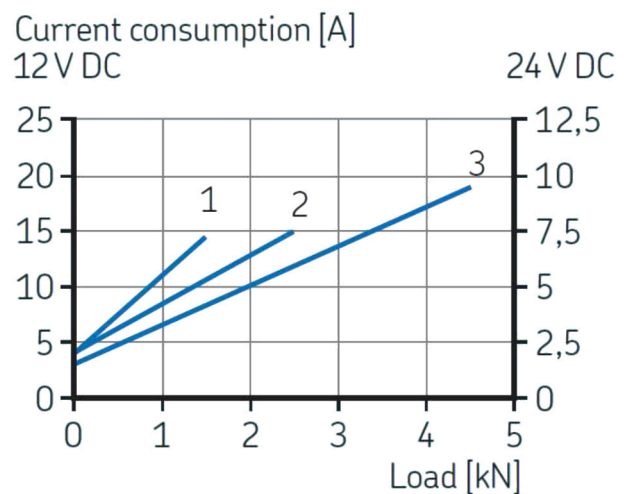
Stroke Length (mm)	100	150	200	250	300	350	400	450	500	600	700
Retracted Length (L1) without Limit switch	282	332	382	432	482	567	617	667	717	817	917
Retracted Length (L1) with Limit switch	291	341	391	441	491	576	626	676	726	826	926
Retracted Length (L1) without Limit switch but with potentiometer or encoder	317	367	417	467	517	602	652	702	752	852	952
Retracted Length (L1) with Limit switch and with potentiometer or encoder	326	376	426	476	526	611	661	711	761	861	961

Performance Diagrams

Speed and load



Current load



Terms of use - Product details subject to change without notice



VAT. 807373820
 Company Registration. 4492419
 Registered Office. Industrial Devices, Unit 32A, Atcham Business Park, Shrewsbury, Shropshire, United Kingdom SY4 4UG

Telephone. +44(0)1743 248 700
 Email. sales@industrialdevicesgroup.com
 Website. www.actuatorselectric.com

Wiring Details

No limit switches (Unit fitted with mechanical overload protection)

Wire connection with no signal

Wire no.	AWG	Colour	Application
1	14	Red	Motor power(+)=> Extension, (-)=> Retraction
2	14	Black	Motor power(-)=> Extension, (+)=> Retraction

Wire connection with potentiometer

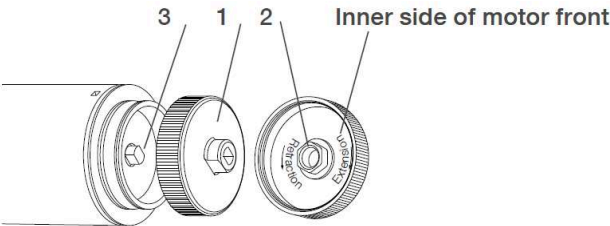
Wire no.	AWG	Colour	Application
1	22	Green	See picture description
2	22	White	See picture description
3	22	Brown	See picture description
4	14	Red	Motor power(+)=> Extension, (-)=> Retraction
5	14	Black	Motor power(-)=> Extension, (+)=> Retraction

Wire connection with encoder

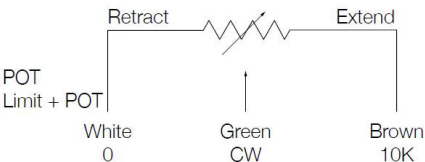
Wire no.	AWG	Colour	Application
1	26	Green	Sensor signal 1 Encoder
2	26	Yellow	Sensor signal 2 Encoder
3	26	Black	Sensor power GND Encoder
4	26	Red	Sensor power 5V Encoder
5	14	Red	Motor power(+)=> Extension, (-)=> Retraction
6	14	Black	Motor power(-)=> Extension, (+)=> Retraction

Manual override

Release the motor cover (1). Use the slot (2) to Rotate the motor shaft(3) in the required direction.

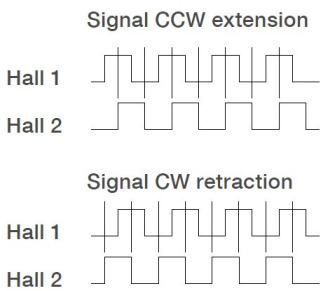


Potentiometer feedback



Optional Mounting Brackets

Encoder feedback

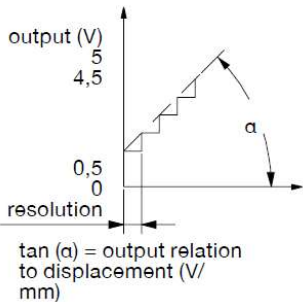


Encoder supply voltage: 5v DC

Absolute analogue position output

Input voltage: 1 0-55v DC
Current consumption: 1 5mA max.
Output analogue signal: 0-5v DC

Absolute analogue output setup:
Retracted 0.5± 0.1 5v
Extended 4.5v to the maximum



View IDM8-21BE Industrial Actuator Online Visit:
<https://actuatorselectric.com>

Contact

Our specialist team are always ready to listen and help, please drop us an email or call to talk with the team.

Address.

Industrial Devices
Unit 32A
Atcham Business Park
Shrewsbury
Shropshire
United Kingdom
SY4 4UG

Telephone.

+44(0)1743 248 700

Email.

sales@industrialdevicesgroup.com

Telephone. +44(0)1743 248 700

Email. sales@industrialdevicesgroup.com

Website. www.actuatorselectric.com



Industrial Devices

Unit 32A, Atcham Business Park, Shrewsbury, Shropshire, United Kingdom SY4 4UG

Telephone. 01743 248 700

Email. sales@industrialdevicesgroup.com

Website. www.actuatorselectric.com

VAT. 807373820

Company Registration. 4492419

Registered Office. Industrial Devices, Unit 32A, Atcham Business Park, Shrewsbury, Shropshire, United Kingdom SY4 4UG