

Profile Electric Rail Brake (Patent Pending) RBE - 25 & 35

Nexen's Electric Rail Brake (RBE) provides a new level of performance and reliability for electric holding on profile rails with fast response times, low backlash and on-board controller logic.

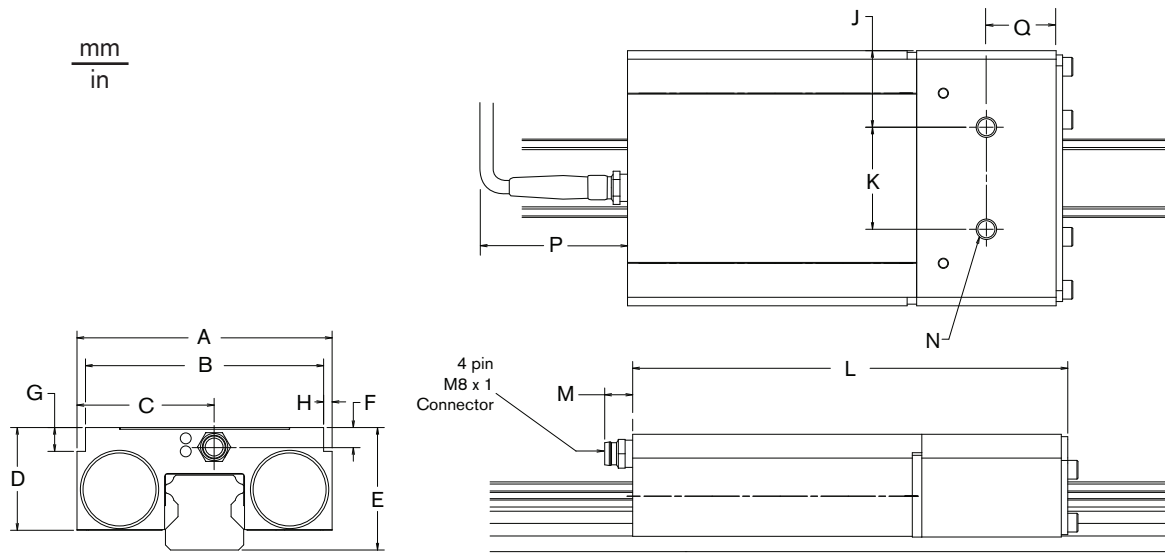
Nexen's mechatronic technology combines the latest electronic and mechanical components, providing the best combination of features available in electric rail brakes today.

The RBE was designed to ensure maximum power density, robustness and efficiency. An on-board microcontroller receives and sends the engage/disengage signals to the drive components. This same system provides digital feedback of engagement.



- Fast response time -- 54% faster than the competition
- Once engaged, power can be removed and full brake holding force will remain
- Brake locks in place and holds precisely – not recommended for e-stops or dynamic braking applications
- Brake completely disengages with zero rail contact and substantial opening of the shoes, eliminating system friction and allowing minor variations in rail alignment
- The on-board controller means no need for an externally-mounted controller
- Brake provides clamping feedback, via cable and on-board LED
- Configurations to fit most profile guide rails (THK, IKO, HIWIN, NSK, INA)
- High holding force of the brake is used when the drive cannot perform the brake function on its own
- Brake provides stiffness to eliminate vibration in linear drive systems

Profile Electric Rail Brake, Approximate Dimensions



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
RBE25	75.0 [2.95]	70.0 [2.756]	40.3 [1.59]	30.20 [1.189]	36.00 [1.417]	5.9 [.23]	7.0 [.28]	2.50 [.098]	22.5 [.89]	30.00 [1.181]	127.9 [5.04]	8.2 [.32]	M6 x 1.0 8.0 [.34]	Straight Connector 43.0 [1.70]	20.50 [.807]
														Right-angle Conn. 20.0 [79]	
RBE35	115.0 [4.53]	100.0 [3.937]	60.3 [2.37]	41.50 [1.634]	48.00 [1.890]	7.6 [.30]	7.0 [.28]	7.50 [.295]	40.5 [1.59]	34.00 [1.339]	186.7 [7.35]	8.6 [.34]	M8 x 1.25 9.0 [.34]	Straight Connector 43.0 [1.70]	32.2 [1.27]
														Right-angle Conn. 20.0 [79]	

Specifications

Model	Rated Holding Force	Backlash at Rated Holding Force	Minimum Engagement Time	Minimum Disengagement Time	Service Temperature	Approx. Weight	Recommended Power Supply
RBE25	1000 N [225 lbs]	0.30 mm [0.012 in]	0.45 sec	0.15 sec	0 - 60° C [32 - 140° F]	1.1 kg [2.5 lbs]	24 VDC @ 2.5A Peak
RBE35	1600 N [360 lbs]	0.38 mm [0.015 in]	0.78 sec	0.24 sec	0 - 60° C [32 - 140° F]	3.2 kg [7.0 lbs]	24 VDC @ 5.0A Peak

RBE Product Numbers by Rail Type

Rail/Carriage Manufacturer	Rail Type	RBE25	RBE35
HIWIN	LGRT, LGRR	967000	Contact Nexen
IKO	LWH	967000	Contact Nexen
INA	KUSE	967000	-
	KUVEL, KUVE	967001	-
NSK	LH	967000	Contact Nexen
THK	HSR	967000	967010
	SHS	967002	-

Accessories

Description	Part Number
M8 x 1.0 Right-angle connector 4-meter cable	967098
M8 x 1.0 Straight connector 4-meter cable	967099



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