

# EXMAX 90° EX QUARTER TURN ACTUATOR - SIZE 'M'

Zones 1, 2, 21, 22

Full catalogue available on our website: [www.inpratex.com](http://www.inpratex.com)

## ATEX ACTUATORS

ZONES 1, 2 (gas) & 21, 22 (dust)



ExMax ATEX certified quarter turn actuators are, in acc. with type, for automation of air dampers, fire and smoke dampers, volume control, as well as for ball valves, throttle valves and other quarter turn armatures.

Up to 5 different running times adjustable on site.

Robust aluminium housing, IP66, optional in stainless steel.



EU-Type Examination Certificate

### TECHNICAL SPECIFICATIONS

Marking:	II 2(2)G Ex db [ib Gb] IIC T6, T5, T4 Gb II 2(2)D Ex tb [ib Db] IIIC T80°C, T95°C, T130°C Db
Certificate:	EU-Type Examination Certificate
Torque*:	30-150 Nm
Power supply:	24-240 V AC / DC
Frequency:	50-60 HZ
Angle of rotation:	95°
Motor running time:	40,60,90,120,150 sec/90°
Spring return*:	3, 20 sec/90° selectable
Control mode*:	On-off, 3-pos, 0-10 V DC, 4-20 mA
Feedback*:	0-10 V DC, 4-20 mA
Squared shaft connection:	16 x 16 mm
Ingress protection:	IP67
Operating temperature:	-40°...+40°C (T6) / -40°...+50°C (T5) / -40°...+60°C (T4)
Cable:	1 m
Dimensions:	288 x 149 x 116 mm
Weight:	Alu ca. 9,5 kg
*depending on type	

### Ex-d QUARTER TURN ACTUATORS WITHOUT SPRING RETURN, 24 TO 240 VAC/DC

Type:	Torque:	Running time 90°:	Control mode:	Feedback:	Item No.:
ExMax- 50.75	50 Nm / 75 Nm	40/60/90/120/150 sec.	On-off, 3-pos	-	8A0401
ExMax- 100	100 Nm	40/60/90/120/150 sec.	On-off, 3-pos	-	8A0402
ExMax- 150	150 Nm	40/60/90/120 sec.	On-off, 3-pos	-	8A0403
ExMax-50.75-S	50 Nm / 75 Nm	40/60/90/120/150 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0404
ExMax- 100-S	100 Nm	40/60/90/120/150 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0405
ExMax- 150-S	150 Nm	40/60/90/120 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0406
ExMax-50.75-Y	50 Nm / 75 Nm	40/60/90/120/150 sec.	3-pos 0...10 VDC, 4...20 mA	0...10 VDC, 4...20 mA	8A0407
ExMax- 100-Y	100 Nm	40/60/90/120/150 sec.	3-pos 0...10 VDC, 4...20 mA	0...10 VDC, 4...20 mA	8A0408

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## Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN, 24 TO 240 VAC/DC

Type:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Features:	Item No.:
ExMax-30-F	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	-	-	8A0501
ExMax-50-F	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	-	-	8A0502
ExMax-60-F	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	-	-	8A0503
ExMax-30-SF	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0504
ExMax-50-SF	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0505
ExMax-60-SF	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0506
ExMax-30-YF	30 Nm	40/60/90/120/150 sec.	20 sec.	3-pos 0...10 VDC, 4...20 mA	0...10 VDC, 4...20 mA	-	8A0507
ExMax-50-YF	50 Nm	40/60/90/120/150 sec.	20 sec.	3-pos 0...10 VDC, 4...20 mA	0...10 VDC, 4...20 mA	-	8A0508
ExMax-30-BF	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TT-..connector	8A0509
ExMax-50-BF	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TT-..connector	8A0510
ExMax-60-BF	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TT-..connector	8A0511

## Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN FOR OFFSHORE APPLICATION, 24 TO 240 VAC/DC

Type:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Features:	Item No.:
ExMax-30-F3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	-	-	8A0601
ExMax-50-F3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	-	-	8A0602
ExMax-30-SF3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	-	8A0603
ExMax-50-SF3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	-	8A0604
ExMax-30-BF3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TT-..connector	8A0605
ExMax-50-BF3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TT-..connector	8A0606

## ACCESSORIES

Type:	Technical specifications:
ExSwitch	External, adaptable, on site adjustable Ex-d auxiliary switch with 2 potential free contacts, adaptable to ExMax-... actuators
ExBox-3P	Ex-e terminal box connectable to ExMax-... actuators with 1 cable for On-off or 3-pos operation
ExBox-3P/SW	Ex-e terminal box connectable to ExMax-... actuators with 1 cable for On-off or 3-pos operation + 2 cable for external aux. switches type ExSwitch
ExBox-Y/S	Ex-e terminal box connectable to ExMax-... actuators with 2 cable, for modulating operation or 3-pos + integrated switches (HS)
ExBox-Y/S/SW	Ex-e terminal box connectable to ExMax-... actuators with 2 cable, for modulating or 3-pos operation with feedback signal + 2 cable for external aux. switches
ExBox-BF	Ex-e terminal box connectable to ExMax-... actuators with 1 cable, for all ExMax-...-BF
ExBox-BF/SW	Ex-e terminal box connectable to ExMax-... actuators with 1 cable, for all ExMax-...-BF + 2 cable for external aux. switches type ExSwitch
MKK-M	Mounting bracket for ...Box-terminal boxes for direct coupling to ...Max... actuators size M
HV-MU	Manual override, connectable to actuators size M
AR-16-xx	Squared reduction part from 16 x 16 mm to shafts with 14 mm (type AR-16-14), 12 mm (type AR-16-12)
ExPro-TT-...	Safety temperature trigger for fire dampers, switching at 71°/72°C, with 1 m cable, suitable only for ExMax-/RedMax-...-BF actuators!
EXC-DS1/VA	Safety temperature sensor for duct mounting, potential free contact, switching at 70°C...160°C (10°C steps)
DWB-M	Angle rotation limiter for mounting on actuator size M
Retrofit-Kit-M	Mechanical adaptation for mounting on ..Max actuators size M, required to replace a previous type EXT15..-F1, EXT12..-F16, EXT15.. or EXT30..
ADM	Different adaptations for different valves available. Please don't hesitate to ask for technical solution.