

SP. No.

Yamatake Corporation

製品仕様書  
SPECIFICATIONS

CATALOG LISTING 1 L X 5 0 [1] [ ] - [2] [3]

[1] TYPE OF LEVER

CODE	TYPE OF LEVER
01	STANDARD LEVER
02	NO LEVER
03	ADJ. LEVER

[2] CONDUIT

CODE	CONDUIT
~	PRESSURE RESISTANCE THREAD JOINT STEEL CONDUIT TYPE
R	PRESSURE RESISTANCE PACKING TYPE

[3] CONTACT MATERIAL

CODE	CONTACT MATERIAL
~	SILVER
K	GOLD PLATED

CATALOG LISTINGS COVERED BY THIS DRAWING ARE AS IN THE BELOW TABLE.  $\triangle$

CATALOG LISTING	ELECTRICAL RATING
1 L X 5 0 0 1 1 L X 5 0 0 2 1 L X 5 0 0 3	Y164 5A-250 VAC 0.8A-125VDC : 0.4A-250VDC
1 L X 5 0 0 1 - R 1 L X 5 0 0 2 - R 1 L X 5 0 0 3 - R	
1 L X 5 0 0 1 - K 1 L X 5 0 0 2 - K 1 L X 5 0 0 3 - K	Y93 0.1A-125 VAC 0.1A- 30 VDC
1 L X 5 0 0 1 - R K 1 L X 5 0 0 2 - R K 1 L X 5 0 0 3 - R K	

06	EC005-1071	12,19,'05	SAKIYAMA	ARAI	作成DR. SHIMIZU 1.30.'97		尺度 SCALE C/D	記入のない公差 TOL. UNLESS NOTED ~	
05	JE003-1254	3,19,'03	TATSUHARA	ARAI	検図CHK. ARAI 1.31.'97	形 番 MODEL	1LX50**-**		
4 04	03	JE099-1319	7,30,'99	TATSUHARA	ARAI	認可APPD S.SANDO 1.31.'97	名 称 NAME	EXPLOSION PROOF SWITCH	
3 05	02	JE098-1459	12,16,'98	TATSUHARA	ARAI	日付 DATE 1.31.'97	図 番 NO.	AD52753E	
2 06	01	JE098-1259	3,20,'98	TATSUHARA	ARAI	改番REV.	06	1/4	
頁 PAGE	改番 REV.	改番 REV.	来歴 RECORD	: 日付 DATE	担当 BY	検閲 APPD.			



S.P. No.

Yamatake Corporation

製品仕様書  
SPECIFICATIONS

**4. MECHANICAL CHARACTERISTICS** (Value at 38.1mm long lever)  $\triangle$

- Actuator Strength; **5** times O.F. (for 1 minute in direction of actuation)
- Terminal Strength; Withstand **1.5N · m** tightening torque applied for 1 minute.  $\triangle$
- Shock; **200 m/s<sup>2</sup>**  $\triangle$   
 Misoperation of the contact shall be 1 ms max. in the free position and the total travel position.
- Vibration; Peak-to-peak amplitude 1.5 mm Vibration frequency 10 to 55 Hz for continuous 2 hours.  
 Misoperation of the contact shall be 1 ms max. in the free position and the total travel position.
- Allowable Operating Speed; **1.0 mm/s** to **0.5 m/s**  
 The lowest speed; Unstable condition of the contact shall be 0.1s max.  
 The highest speed; The actuator shall not damage.
- Mechanical Operating Frequency; **120** cycles/minute max.

**5. LIFE**

- Mechanical Life; **4000k** cycles min. at "O.T." of 70 to 100% of the rating
- Electrical Life; The conditions at the rated load, operation frequency of 20 cycles a minute are satisfied.  $\triangle$

Contact material	Operation cycle
Silver	500k cycles min.
Gold plated	2000k cycles min.

**6. ENVIRONMENTAL CHARACTERISTICS**

- Operating Temperature; **-10 to +60 °C** (at no freezing)  $\triangle$  $\triangle$
- Environmental Requirement Level ; Listed by the Ministry of Labor for use in hazardous atmospheres of d2G4. (watertight)

**7. MOUNTING**

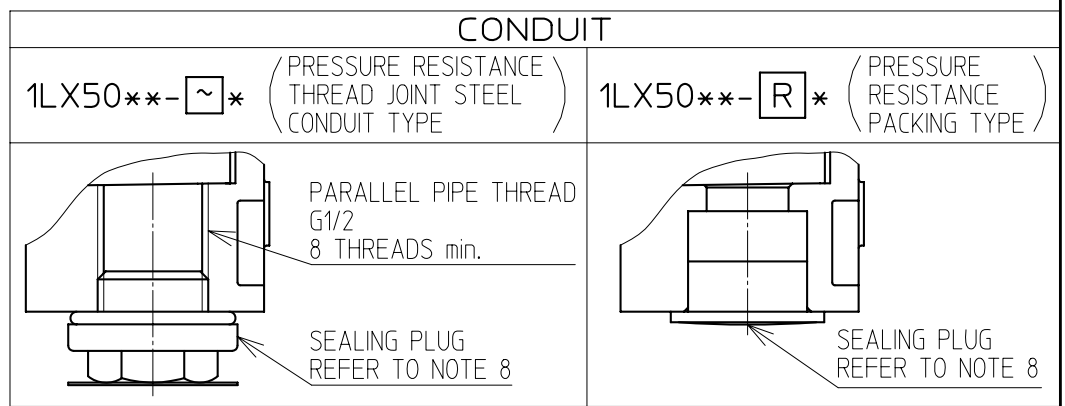
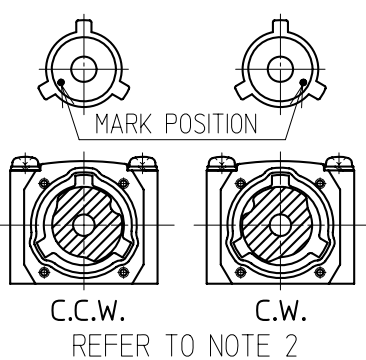
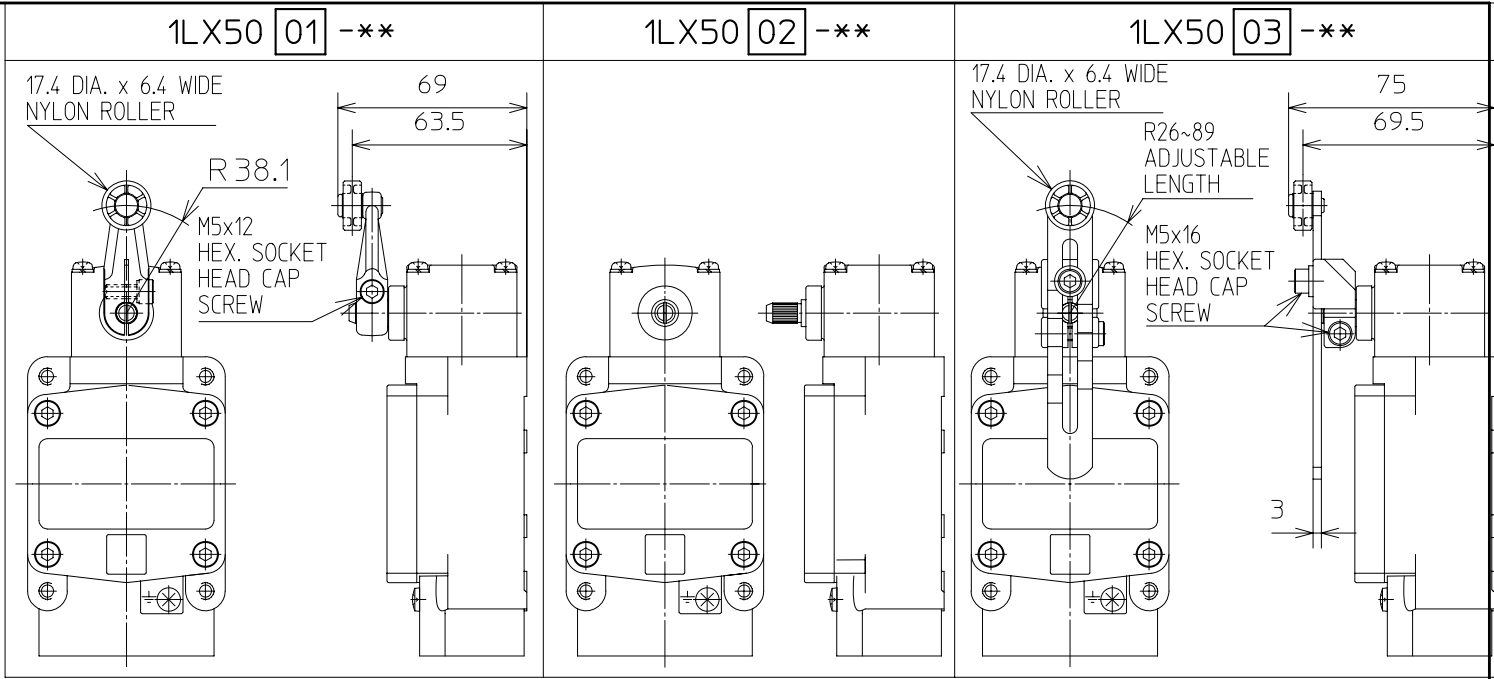
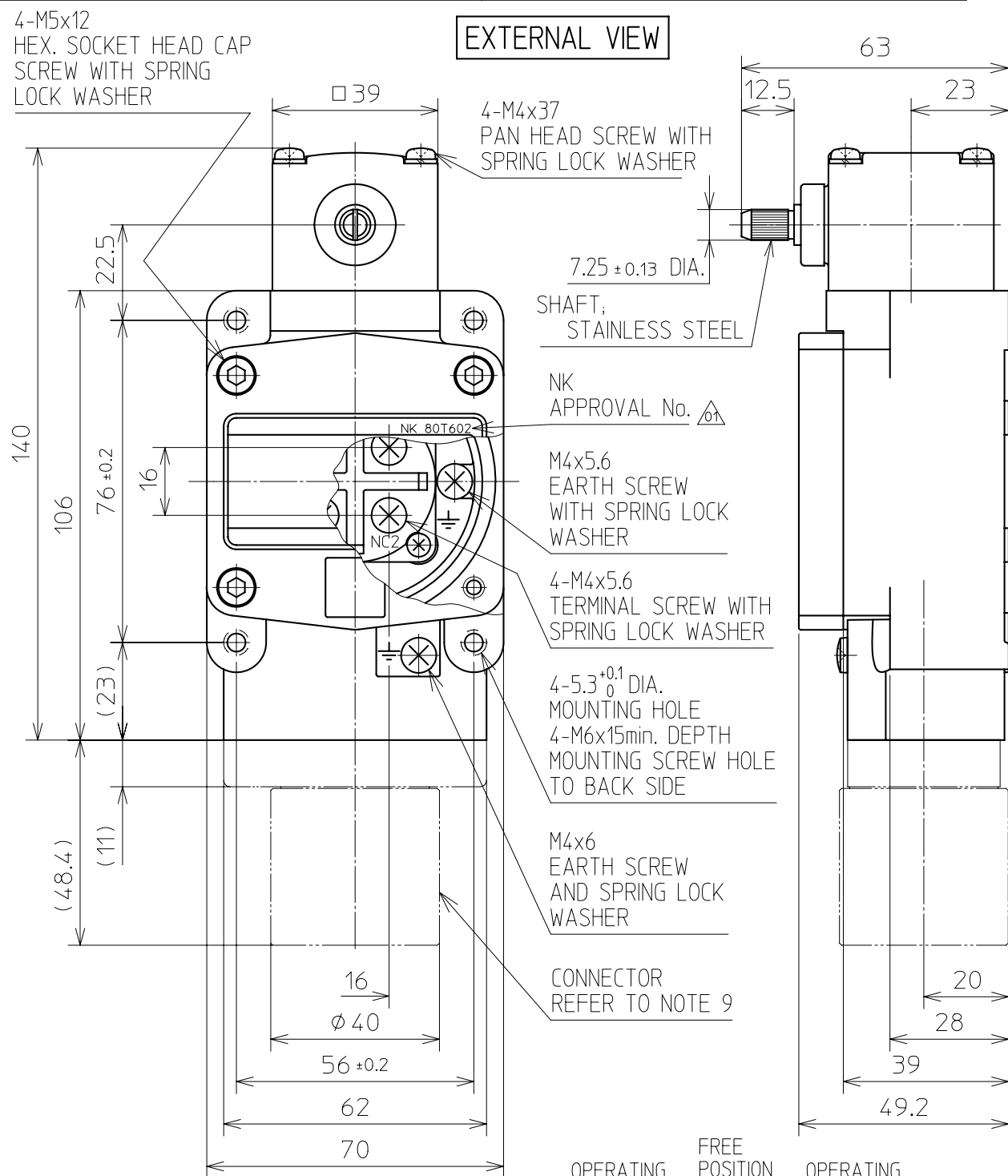
- For mounting the switch to panel : 5 to 6 N · m  $\triangle$  (M5 cap screw)
- For mounting the cover to housing : 5 to 6 N · m  $\triangle$  (M5 cap screw)
- For mounting the head to housing : 1.3 to 1.7 N · m  $\triangle$  (M4)
- For mounting the terminal to switch : 1.3 to 1.7 N · m  $\triangle$  (M4)
- For mounting the lever to switch : 4 to 5.2 N · m  $\triangle$  (M5)

作成DR. SHIMIZU 1, 30, '97				尺度 SCALE	記入のない公差 TOL. UNLESS NOTED						
05	+70 °C	3,19,'03	TATSUHARA	ARAI	形番 MODEL 1LX50**-*						
04	~	5,11,'01	TATSUHARA	ARAI							
03	SI (MKS) → SI	7,30,'99	TATSUHARA	ARAI	名称 NAME EXPLOSION PROOF SWITCH						
02	30 long lever	12,16,'98	TATSUHARA	ARAI							
頁 PAGE	改番 REV.	改番 REV.	来歴 RECORD	: 日付 DATE	担当 BY	検閲 APPD.	日付 DATE 1,31,'97	図番 NO.	AD52753E	改番 REV. 05	3/4

S.P. No.

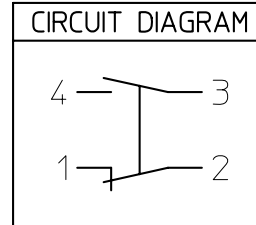
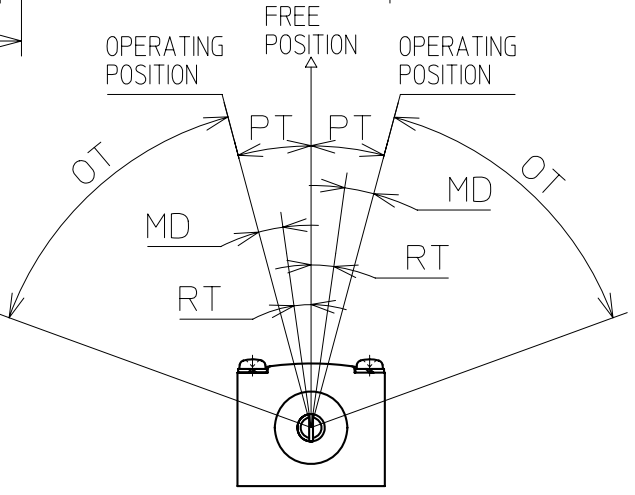
Yamatake Corporation

製品仕様書  
SPECIFICATIONS



- NOTES
- THIS SWITCH IS ASSEMBLED FOR ACTUATION IN EITHER DIRECTION.
  - TO CONVERT SWITCH FOR ACTUATION IN EITHER CLOCKWISE DIRECTION ONLY OR COUNTERCLOCKWISE DIRECTION ONLY, REMOVE SCREWS, COVER AND SPRING ON HEAD HOUSING AND ROTATE SHAFT. THEN, AS MARKED CAM COMES OFF, REMOVE IT. ROTATE SHAFT AND REASSEMBLE CAM AS SHOWN WITH HATCHING IN FOLLOWING DRAWING.
  - FOR WIRING TO THIS SWITCH, DISASSEMBLE FOUR M5x12 HEX. SOCKET HEAD SCREWS WITH HEX. WRENCH TO REMOVE COVER, AND WIRE TERMINALS. USE THIS SWITCH IN CONFORMITY WITH 'RECOMMENDED PRACTICE FOR EXPLOSION PROTECTED ELECTRICAL INSTALLATIONS IN GENERAL INDUSTRIES' ISSUED BY MINISTRY OF LABOR SINCE UNBALANCED OR INSUFFICIENT TIGHTENING OF COVER AND INSUFFICIENT CONDUIT CONNECTION MAY RESULT IN REMARKABLE EXPLOSION PROOF PERFORMANCE DETERIORATION.
  - HOUSING, COVER, AND HEAD ARE MADE OF ALUMINUM ALLOY FINISHED WITH GRAY PAINT.
  - EXTERNAL SCREWS ARE MADE OF STAINLESS STEEL.
  - WHEN CONNECTING WIRE TO TERMINAL SCREW, ASSEMBLE AMP ROUND TERMINAL 328527 OR EQUIVALENTS TO WIRE END.
  - DO NOT LOAD MORE THAN TORQUE ON SHAFT.
  - DO NOT REMOVE SEALING PLUG TILL STARTING WIRING.
  - AS EXPLOSION-PROOF CONNECTOR IS NOT ATTACHED TO SWITCH, SELECT AND ORDER SEPARATELY 2PA-JEX1\*\* SERIES (CONDUIT SIZE G1/2) OR 2PA-JEX2\*\* SERIES (CONDUIT SIZE G3/4).
  - IN THE MECHANICAL CHARACTERISTICS O.F. AND R.F. ARE THE CHARACTERISTICS AT 38.1mm LEVER LENGTH.

CHARACTERISTICS	
OPERATING FORCE	12.8N max. $\Delta$
RELEASE FORCE	1.1N min. $\Delta$
PRETRAVEL	15' max.
MOVEMENT DIFFERENTIAL	7' max.
OVERTRAVEL	55' min.
RELEASE TRAVEL	(5')



改番 REV.	来歴 RECORD	日付 DATE	担当 BY	検閲 APPD.
04	~	5,11,'01	TATSUHARA	ARAI
03	SI (MKS) → SI	7,30,'99	TATSUHARA	ARAI
02	~	12,16,'98	TATSUHARA	ARAI
01	NK 80T605	3,20,'98	TATSUHARA	ARAI

作成DR. SHIMIZU 1.30.'97	検図CHK. ARAI 1.31.'97	認可APPD. S.ANDO 1.31.'97	日付DATE 1.31.'97	尺度 SCALE 記入のない公差 TOL. UNLESS NOTED ± 0.8	形番 MODEL 1LX50**-**	名称 NAME EXPLOSION PROOF SWITCH	図番 NO. AD52753E	改番REV. 04	4/4
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## 製品仕様書 SPECIFICATIONS

### “RESTRICTIONS ON USE”

This product has been developed, designed and manufactured in accordance with the standards of explosion-protected electrical apparatus.

When using this product in application requiring particular safety, special care should be taken to implement a fail-safe and/or redundant design concept as well as a periodic maintenance program.

The notified body and/or the applicable standards may vary by the model number. Be sure to confirm the specification for the details.

		01	JEO03-0457	6-23-03	Harada	Miura
1	01	00	First issue	12-2-02	Harada	Miura
頁	改番	改番	来歴	日付	担当	検閲
		REV.	RECORD	DATE	BY	APPD.